S: 8 August 1997
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DEFENSE INFORMATION SYSTEMS AGENCY

JOINT INTEROPERABILITY TEST COMMAND
FORT HUACHUCA, ARIZONA

GLOBAL COMMAND AND CONTROL SYSTEM 3.0 MODIFIED DEVELOPMENTAL TEST AND EVALUATION STAGE III (GCCS-MDT&E) PLAN

(DRAFT) VERSION 1.1

24 JULY 1997

GLOBAL COMMAND AND CONTROL SYSTEM VERSION 3.0 MODIFIED DEVELOPMENTAL TEST AND EVALUATION STAGE 3 (GCCS-MDT&E) PLAN

(DRAFT)

24 JULY 1997

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EXECUTIVE SUMMARY

The Defense Information Systems Agency (DISA) is developing the Global Command and Control System (GCCS) in response to guidance from the Chairman, Joint Chiefs of Staff, to standardize command and control systems. GCCS replaced the World Wide Military Command and Control System (WWMCCS), which was turned off when GCCS version 2.1 was accepted as the System of Record.

GCCS 3.0 is the next step in GCCS maturation. It will provide increased reliability, stability, performance, and extended support for NT platforms and web browser access. Version 3.0 will implement the Defense Information Infrastructure (DII) Common Operating Environment (COE) replacing GCCS COE used in 2.2.2 and earlier versions.

The Joint Interoperability Test Command (JITC) will conduct a Modified Developmental Test and Evaluation (MDT&E) Stage 3 and Evaluation of GCCS version 3.0. GCCS-MDT&E will verify GCCS version 3.0 readiness for operational testing. Respective Subject Matter Experts (SME's) will review test cases in Appendix E and provide the JITC with their recommendation(s) for the MDT&E. Representative user personnel at selected sites will install and operate the system and provide user feedback to JITC during MDT&E.

GCCS-MDT&E will make a recommendation to the Operational Test Readiness Review (OTRR) board on the readiness of this version to proceed to Operational Testing. A "Quick Look" report will be generated summarizing the results for Stage III. The formal MDT Stage III report detailing all the results will be published within a few weeks of Stage III completion. Both reports will include the results of the performance characterization of selected GCCS functionality's. Both reports will be provided to the developer, user, and operational tester as support documentation at the OTRR.

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SECTION I - INTRODUCTION

I-1 BACKGROUND

a. The Defense Information Systems Agency (DISA) is developing the Global Command and Control System (GCCS) in response to guidance from the Chairman, Joint Chiefs of Staff, to standardize command and control systems. GCCS was designated as the replacement for the World Wide Military Command and Control System (WWMCCS) when GCCS version 2.1 was accepted.

b. The transition from GCCS version 2.1, 2.2.1, 2.2.2, to version 3.0 includes changing from the GCCS Common Operating Environment (COE) to the Defense Information Infrastructure (DII) COE. In addition to the DII COE, GCCS V3.0 also includes upgrades to the Solaris operating system, HP/UX operating system, and upgrade of Oracle and Sybase database management systems, a new Desktop, and many other changes in security and system support areas.

c. Figure I-1 shows the GCCS network sites.

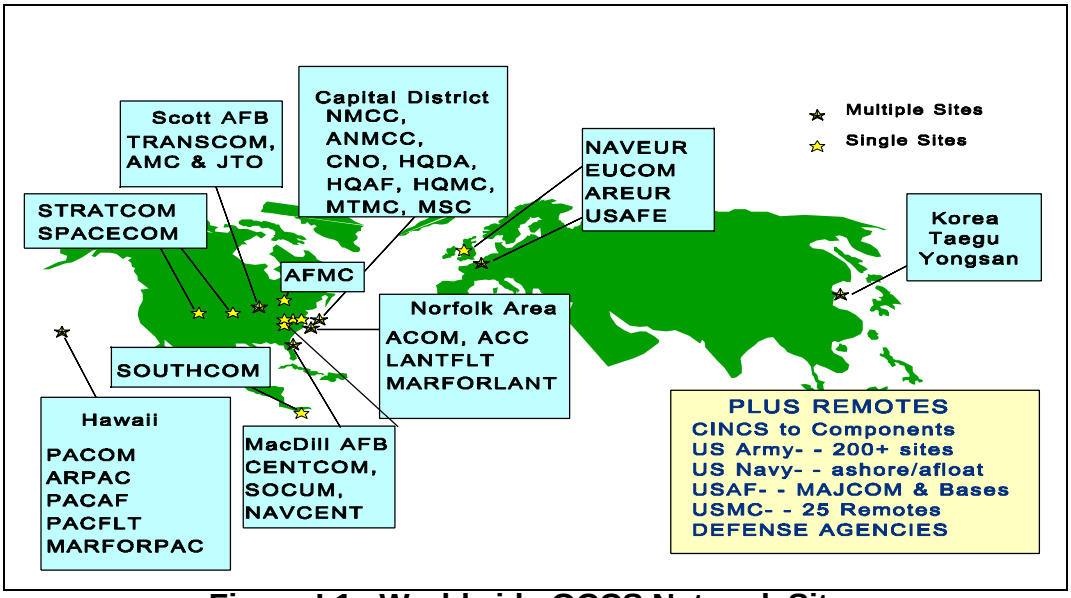

Figure I-1. Worldwide GCCS Network Sites

d. Figure I-2 shows a typical site configuration.

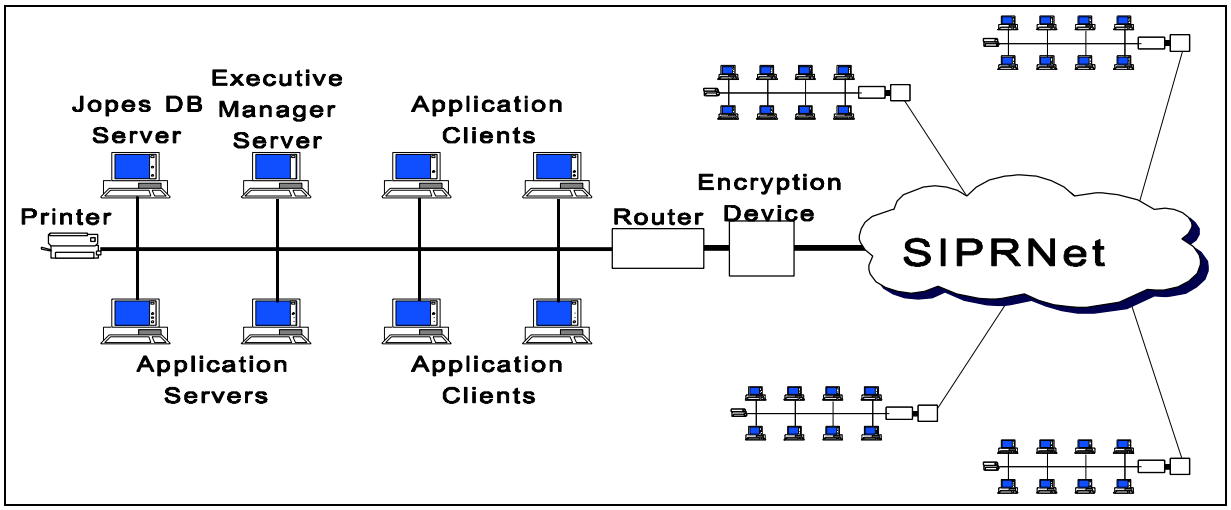

Figure I-2. Typical GCCS Site Configuration

e. The Modified Developmental Test and Evaluation(MDT&E) Stage 3 testing is the final stage of a test approach that leverages the developer testing with user involvement, laboratory testing, and user beta testing. The three stages of MDT&E are:

· MDT&E Stage 1: Application and Segment Testing at the developer's facilities. During this stage, JITC personnel will validate the segments functionality with their appropriate COE, and user participation for applicable segments will be required.

· MDT&E Stage 2: Compliance and Integration Testing. During this stage, all Global System Problem Reports (GSPRs) are re-tested and validated or returned. All segments are verified as complete and integrated into the GCCS version 3.0. Users will participate in or observe testing of selected GCCS V 3.0 capabilities.

· MDT&E Stage 3: MDT&E/System Testing. Stage 3 consists of conducting application system testing designed to verify integration and functionality, lead to a recommendation of readiness for OT&E, and prepare for an Operational Test and Evaluation (OT&E) with full user involvement. Users will evaluate if the functional and technical user requirements are met. Interfaces with feeder systems, when made available, will be evaluated. Priority 1 and 2 Global System Problem Reports (GSPRs), that were not validated in previous stages, will be validated. Some GCCS application functions will be selected for inclusion into the Performance Characterization effort. The Performance Characterization effort will test, track, and record application response times during testing. Performance Characterization data can be later used by operational sites as a rough yardstick for planning and comparison purposes of their GCCS suites. JITC, working with user

Subject Matter Experts (SMEs), will ensure test cases for each site are identified and that the exit criteria for Stage III have been met and the results provide enough data to facilitate an OTRR decision.

Figure I-3 shows the MDT&E and OT&E stages.

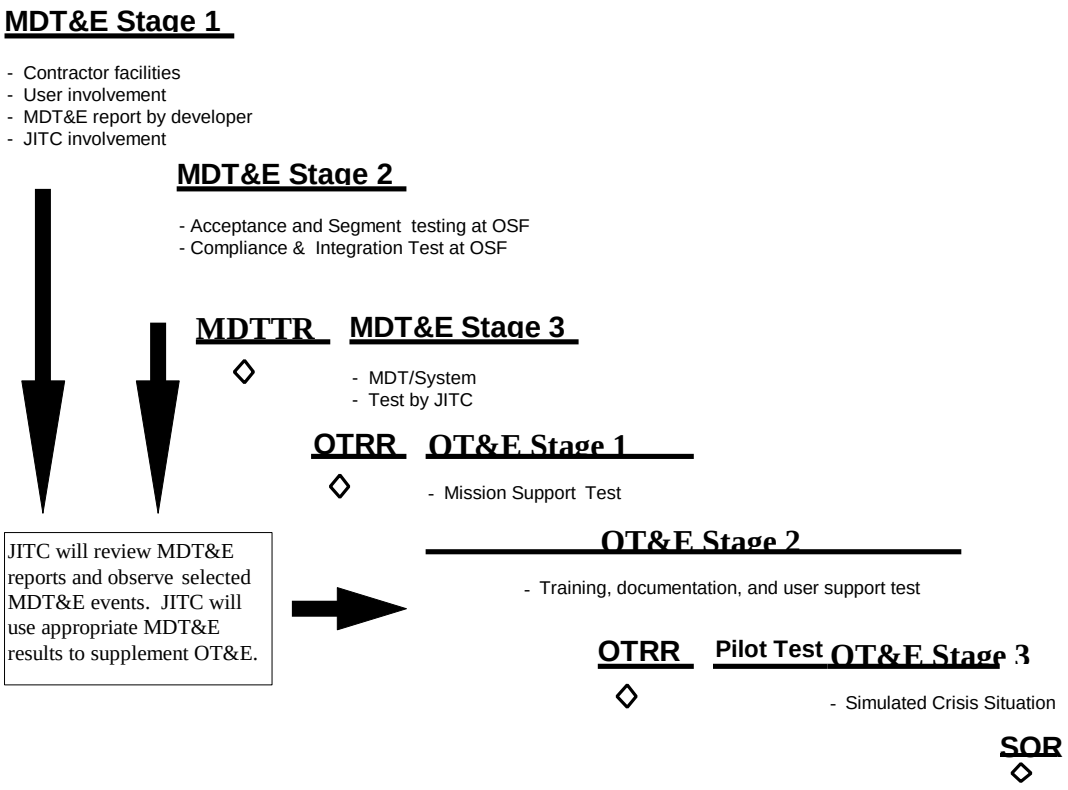

Figure I-3. Version 3.0 Test Stages

I-2 PURPOSE. The purpose of MDT&E Stage 3 is to verify functionality, leading to a recommendation of readiness, and prepare for the OT&E.

I-3 SCOPE. GCCS version 3.0 has been produced to merge the GCCS mission functionality of version 2.2 with the new DII COE version 3.1. Although there is very little change or addition in user functionality, the complete change of the COE foundation requires significant testing. The GCCS mission functionality needs to be tested to ensure it performs properly in the context of the new DII COE.

I-3.1 Overview

a. In MDT&E Stage 3, JITC will work with users and verify the installation procedures, software load programs, for each available platform type.

The MDT&E sites will use the procedures in the GCCS Version 3.0 release notes to produce the system. The following sites may participate in this testing stage:

JITC at Fort Huachuca, AZ
Joint Demonstration and Evaluation Facility (JDEF) at Arlington, VA

Up to five operational sites (TBD)

Available hardware platforms will be included in this stage.

b. Available service feeder systems, whenever available at the MDT&E sites, will be included in this stage's testing. Their interoperability with GCCS will be evaluated. OT&E team members will be involved at this stage as independent observers for data collection purposes in preparation for subsequent OT activities. Service feeder systems not available during this stage, can be evaluated for interoperability with GCCS during the OT&E.

I-3.2 Limitations. Due to time and resource constraints, many areas will not be tested in-depth during MDT&E. There will be limited testing in most areas, with a few applications chosen for more concentrated testing. Those areas that will be more thoroughly tested will be those that have exhibited significant problems in previous developmental testing.

SECTION II - DETAILS OF TEST

II-1 NEW SOFTWARE INSTALLATION

II-1.1 Objective. To determine the accuracy of procedures and tools for installation and configuration of GCCS version 3.0 (V3.0)

II-1.2 Criteria. GCCS site mission support personnel shall be able to prepare the GCCS V3.0 for operational use by:

installing software
configuring the system
establishing permissions
establishing connectivity
establishing security controls .

II-1.3 Data Requirements

a. Criteria Related

(1) Subject Matter Expert (SME) assessment of mission support task success and ease of use.

(2) User evaluation of appropriate permissions granted.

(3) Installation Checklist Responses.

b. Supplemental Data

(1) Task Name

(2) Site Name

(3) Date/Time

(4) Test Incident Reports (TIRs) related to installation and configuration capability.

(5) Installation procedures

(6) Listing of segments for GCCS V3.0

II-1.4 Test Procedures

a. Test Conduct

(1) GSAs, GDBAs, and GISSOs at the designated sites will execute the installation-related Mission Support Tasks as defined in Table 9 of Appendix D in accordance with the installation procedures provided with the installation package. The execution of the procedures will provide an installed and configured GCCS V3.0 with established permissions, network connectivity, and security controls at each site.

(2) SMEs will observe the number of mission support tasks successfully completed and assess the ease and correctness of the installation and configuration procedures.

(3) Site specified personnel and JITC analysts will review any TIRs to determine the degree of mission impact.

b. Data Collection

(1) GCCS system administrators will complete the Assessment of Installation of GCCS V3.0 contained in Appendix E during installation of the software.

(2) GCCS SMEs will record their observations of the GCCS V3.0 installation and configuration on the data collection forms in Appendix E.

(3) JITC MDT&E Stage 3 test personnel, SMEs and operational site personnel will document problems using the TIR process.

II-1.5 Presentation of Results

a. The summarization of the results will be presented in narrative form.

b. The test report will also contain a narrative describing unclear instructions, user perceptions, and incidences where user was unable to perform task without assistance from OSF personnel.

II-1.6 Analysis and Discussion

a. GCCS SMEs will determine the success and ease of completion of the installation-related GCCS 3.0 Mission Support Tasks based on the number of errors that occur during software installation and configuration.

b. JITC analysts will collate and summarize the SME assessments of installation-related mission support tasks. They will identify unsuccessful mission support tasks and identify their impact on the operational sites. They will determine to what extent the unsuccessful mission support tasks affect operational sites.

c. JITC analysts will collate and summarize the SME assessments of the ease with which installation-related mission support tasks were successfully completed. They will identify difficult mission support tasks and identify their impact on the operational sites. They will determine to what extent the difficulty of mission support tasks affect operational sites.

II-2 MISSION SUPPORT FUNCTIONALITY

II-2.1 Objective. To determine to what extent the GCCS V3.0 provides mission support functions to the users.

II-2.2 Criteria The GCCS V3.0 shall provide necessary mission support functions and tasks.

II-2.3 Data Requirements

a. Criteria Related

Date/time
Place of Test
Participant (User Type)
Mission Support Task
Output/product
Applications Used
est incident report for problems detected
SME assessment of success based upon:
- Timeliness
- Ease of accomplishment
- Absence of errors

b. Supplemental Data

Installation Instructions
GSPRS List

II-2.4 Test Procedures

a. Test Conduct Appropriate user personnel (Systems Administrators, Security Administrators, Database Administrators, Functional Database Managers, and Track Database Managers) will attempt to perform each of the tasks in table 9 of Appendix D that apply to their position.

b. Data Collection. SMEs will evaluate the support provided and the products produced, if any, and will record their evaluation on appropriate data collection forms.

(1) GCCS SME will observe and determine the success of GCCS 3.0 Mission Support Tasks based on timeliness and the absence of error. A data collection form will be used to collect SMEs assessment of the successfulness and ease of mission support tasks.

(2) JITC test personnel, SMEs, and operational site personnel will document problems using the TIR process. Site specified personnel and JITC analysts will review each incident report to determine mission impact.

II-2.5 Presentation of Results

a. The assessments will be displayed in tabular format categorized as either highly successful, fully successful, marginally successful, or unsuccessful. The test report will contain a narrative describing unsuccessful mission support tasks and their impact.

b. The summarization of the assessments of the ease with which installation-related mission support tasks were completed, the difficulties encountered and workarounds required will be presented in narrative form.

II-2.6 Analysis and Discussion

a. GCCS SMEs will determine the success and ease of completion of the installation-related GCCS 3.0 Mission Support Tasks based on the number of errors that occur during software installation and configuration.

b. JITC analysts will collate and summarize the SME assessments of mission support tasks. They will identify unsuccessful mission support tasks and identify their impact on the operational sites. They will determine to what extent the unsuccessful mission support tasks affect operational sites.

c. JITC analysts will collate and summarize the SME assessments of the ease with which mission support tasks were successfully completed. They will identify difficult mission support tasks and identify their impact on the operational sites. They will determine to what extent the difficulty of mission support tasks affect operational sites.

II-3 USER MISSION FUNCTIONALITY

II-3.1 Objective. To determine the extent to which GCCS V3.0 supports the warfighter in accomplishing deliberate and crisis action planning.

II-3.2 Criteria. The GCCS V3.0 shall support accomplishment of crisis action planning and execution.

(Note: Investigative in nature. SMEs will make assessments of mission task success based on the output product evaluation for timeliness, accuracy, completeness, and usefulness of task product).

II-3.3 Data Requirements

a. Criteria Related. A data collection form will be developed that will contain these data elements:

(1) Title of Task.

(2) Site Name.

(3) Date/Time Group.

(4) SME assessment of mission task success based on timeliness, accuracy, completeness, and relevance.

(5) SME detailed comments on the impact of task if unsuccessful.

b. Supplemental Data

(1) TIRs.

(2) Method used to connect user terminal to GCCS local area network (LAN) (direct or remote) and data speed if remote.

(3) Test Conduct Log forms.

(4) Daily Activity Situation Report (SITREP) forms.

II-3.4 Test Procedures

(Note: The GCCS user community has been tasked to provide qualified users as operators for the GCCS system, and also to provide qualified users as SMEs for observing and assessing the success of mission tasks.)

a. Test Conduct

(1) Test site operator personnel at GCCS test sites will operate and maintain the system in a simulated crisis situation.

(2) Operators will perform the tasks identified in the Mission Task list in Tables 2 through 8 of Appendix D.

(3) The user community:

(a) may categorize tasks according to their importance to overall mission accomplishment.

(b) will select the actual tasks to be performed.

(b) will provide SMEs to evaluate success of mission tasks accomplished by operators.

b. Data Collection. An SME will determine the success of each task based on timeliness, accuracy, completeness, and usefulness of the task product. The SME will complete the SME Assessment Sheet included in Appendix E.

(1) SMEs will evaluate the products produced and will record their evaluation on appropriate data collection forms.

(2) JITC test personnel, SMEs and operational site personnel will document problems using the TIR process.

II-3.5 Presentation of Results.

a. The assessments will be displayed in tabular format categorized as either highly successful, fully successful, marginally successful, or unsuccessful. The test report will contain a narrative describing unsuccessful mission tasks and their impact.

b. The summarization of the assessments of the ease with which mission tasks were completed, the difficulties encountered and workarounds required will be presented in narrative form.

II-3.6 Analysis and Discussion

a. The analysts will compute the results based on the percentage of success for total tasks. There is no threshold for the percentage of success or failure. The team will assess operational impact of the observed anomalies and provide a narrative summary of SME statements regarding deficiencies, suggested improvements, or other comments.

b. JITC analysts will review user comments for areas receiving low ratings to determine overall impact on site operations. The evaluation team will highlight each potential show stopper for the decision authority.

II-4 INTEROPERABILITY

II-4.1 Objective. To determine to what extent GCCS is interoperable with feeder systems.

II-4.2 Criteria. GCCS shall send data to and receive data from the feeder systems listed in table II-4.1. Send and receive requirements, as indicated by a "**T**" in table II-4.1, shall be accomplished without error.

Table II-4.1. GCCS Interface Requirements with Feeder Systems

INTERFACING SYSTEM	DATA TRANSFER REQUIREMENT	
	SEND	RECEIVE
Global Command and Control System Top Secret (GCCS(T))	**T**	**T**
Computerized Movement Planning and Status System (COMPASS)	**T**	**T**
Contingency Operations/Mobility Planning and Executions System (COMPES)	**T**	**T**
Joint Force Requirements Generator/Marine Air-Ground Task Force War Planning System (JFRG/MAGTF II)	**T**	**T**
Global Status of Resources and Training System (GSORTS)	**T**	**T**
Global Transportation Network (GTN)	**T**	**T**
Common Operational Picture (COP) Feeds		**T**
Community Online Intelligence System for End-Users and Managers (COLISEUM)	**T**	**T**
Modernized Integrated Database (MIDB)	**T**	**T**
Tactical Receive Equipment and Related Applications (TRAP)		**T**
Reserve Unit Deployment Resources System (RUDRS)	**T**	**T**
National Imagery and Mapping Agency (NIMA) and Imagery Product Library (IPL)	**T**	**T**

II-4.3 Data Requirements. The JITC GCCS Interoperability Assessment Plan (published separately) identifies data requirements.

a. Criteria Related. Identified in the JITC GCCS Interoperability Certification Evaluation Plan.

b. Supplemental Data. Identified in the JITC GCCS Interoperability Certification Evaluation Plan.

II-4.4 Test Procedures. The JITC GCCS Interoperability Certification Evaluation Plan (published separately) identifies test procedures. Interoperability will be evaluated in conjunction with User Mission Functionality, using appropriate tasks from Table 8 of Appendix D. Test procedures identified in paragraph II-3-4 will support the interoperability assessment.

a. Test Conduct. While users are performing the tasks in Table 8 of Appendix D, they will be exercising the interoperability functions. SMEs will provide information as a result of the User Mission Functionality testing.

b. Data Collection. JITC analysts will review the data collected as a result of performing tasks in Table 8 of Appendix D and include applicable findings in the final summary.

II-4.5 Presentation of Results. The evaluation of GCCS Interoperability will be based upon GCCS' ability to interoperate with other DoD systems. The results of the separate Interoperability Certification Evaluation will be summarized in narrative form.

II-4.6 Analysis and Discussion. The JITC GCCS Interoperability Certification Evaluation Plan (published separately) identifies analysis methodology. Only a summary of evaluation will be included in the MDT&E report.

II-5 PERFORMANCE CHARACTERIZATION

II-5.1 Objective. To determine GCCS V3.0 performance characteristics.

II-5.2 Criteria. No performance criteria have been established for GCCS V3.0. This test is investigative in nature. This data will be used to support OT.

II-5.3 Data Requirements

a. Criteria Related

b. Supplemental Data

(1) Task Name.

(2) Site Name.

(3) Date/Time.

(4) Application/Method Used.

(5) Hardware/Platform:

Response times for application load.

(6) Database:

OPLAN distribution time (from NMCC).

Distributed Transaction processing time across network (from individual sites).

(7) Suggested tools:

BEST/1 (Performance Assurance).

JITC LAN/WAN analyzer.

SNIFFER LAN traffic analyzer.

(8) Time to perform selected mission support tasks

(9) Time to perform selected mission tasks

II-5.4 Test Procedures

a. Test Conduct

(1) Selected test tools will capture and record data for future analysis.

(2) SMEs maybe required to manually capture response times.

b. Data Collection

JITC analysts will summarize the SMEs and automated tools data collection.

II-5.5 Presentation of Results. Results will be presented in graphic, matrix, or narrative form, whichever is most appropriate.

II-5.6 Analysis and Discussion. JITC will assess the performance characterization results and provide a summary of comments or suggested improvements.

II-6 COMPATABILITY. This a new requirement and data will be developed and provided in the Final Test Plan.

II-6.1 Objective.

II-6.2 Criteria.

II-6.3 Data Requirements

a. Criteria Related

b. Supplemental Data

II-6.4 Test Procedures

a. Test Conduct

b. Data Collection

JITC analysts will summarize the SMEs and automated tools data collection.

II-6.5 Presentation of Results.

II-6.6 Analysis and Discussion.

APPENDIX A

ACRONYMS

AHQ	Ad Hoc Query
AMHS	Automated Message Handling System
ATO	Air Tasking Order
ATOCONF	ATO Confirmation
AUTODIN	Automatic Digital Network
C2	Command and Control
C4I	Command, Control, Communications, Computers, & Intelligence
CAP	Crisis Action Procedures
CENTCOM	Central Command
CESP	Civil Engineering Support Plan
CINC	Commander-in-Chief
CJCS	Chairman Joint Chiefs of Staff
C/JTF	Combined and/or Joint task Forces
COA	Course Of Action
COE	Common Operating Environment
COLISEUM	Community On-Line Intelligence System for End-Users and Managers
COMPASS	Computerized Movement Planning and Status System
COMPES	Contingency Operations/Mobility Planning and Execution System
COP	Common Operational Picture
C/S	Client/Server
COTS	Commercial Off-the-Shelf
CPU	Central Processing Unit
CTAPS	Contingency Theater Automated Planning System
DART	Dynamic Analysis and Replanning Tool
DII	Defense Information Infrastructure
DISA	Defense Information Systems Agency
DISN	Defense Information Systems Network
DMA	Defense Mapping Agency
DMACC	Defense Mapping Agency Aerospace Center
DMS	Defense Message System
DoD	Department of Defense
DoDIIS	DoD Intelligence Information System
EVAC	Evacuation System

FAPES	Force Augmentation Planning and Execution System
FRAS	Fuel Resource Analysis System
FTP	File Transfer Protocol
GARC	GCCS ATO Review Capability
GASPR	Global System Problem Report
GCCS	Global Command and Control System
GCCS-MDT&E	GCCS-Modified Developmental Test and Evaluation
GDBA	GCCS Database Administrator
GENSER	General Services Message Traffic
GISSO	GCCS Information Systems Security Officer
GNA	GCCS System Administrator
GRIS	Global Reconnaissance Information System
GSA	GCCS System Administrator
GSORTS	Global Status of Resources and Training System
GSPR	Global System Problem Report
GTN	Global Transportation Network
HP	Hewlett Packard
IMS	Information Management Subsystem
IPL	Imagery Product Library
IRC	Internet Relay Chat
IRM	Information Resource Management
ISSO	Information Systems Security Officer
JCS	Joint Chiefs of Staff
JDEF	Joint Demonstration and Evaluation Facility
JDISS	Joint Deployable Intelligence Support System
JEPES	Joint Engineer Planning and Execution System
JFAST	Joint Flow and Analysis System for Transportation
JIC	Joint Intelligence Center
JMCIS	Joint Maritime Command Information System
JITC	Joint Interoperability Test Command
JNAV	JOPES Navigation
JOPES	Joint Operation Planning and Execution System
JPAC	Joint Personnel Asset Visibility
JPEC	Joint Planning and Execution Community
JFRG	Joint Force Requirements Generator
JRS	Joint Reporting Structure
JSPS	Joint Strategic Planning System
JTF	Joint Task Force

LAN	Local Area Network
LOGSAFE	Logistics Sustainment Analysis and Feasibility Estimator
MAGTF II	Marine Air-Ground Task Force War Planning System
MDT&E	Modified Development Test and Evaluation
MDTRR	Modified Development Test Readiness Review
MEPES	Medical Planning and Execution System
MIDB	Modernized Integrated Database
MWF	Medical Working Files
NCA	National Command Authority
NIMA	National Imagery and Mapping Agency
OPLAN	Operation Plan
OPORD	Operation Order
OSF	Operational Support Facility
OT	Operational Test
OT&E	Operational Test and Evaluation
OTRR	Operational Test Readiness Review
PC	Personal Computer
PDR	Predefined Report
PFE	Prototype Feasibility Estimator
RAM	Reliability, Accessibility, Maintainability
RAPIDSIM	Rapid Intertheater Deployment Simulator
RDA	Requirements Development and Analysis
RDBMS	Relational Database Management System
RFA	Reference File Administration
RID	Requirements Implementation Document
RPI	Real Property Inventory
RUDRS	Reserve Unit Deployment Resources System
S&M	Scheduling and Movement
SIPRNET	Secret Internet Protocol Router Network
SITREP	Situation Report
SME	Subject Matter Expert
SMINT	Scheduling and Movement Interface
SORTS	Status of Resource Training System
SQL	Standard Query Language
ST&E	Security Test and Evaluation
STU	Secure Telephone Unit

SYS SVC	System Services
TARGET	Theater Analysis and Replanning Graphical Execution Toolkit
TCC	Transportation Component Command
TCC-ESI	TCC-External System Interface
TELNET	
TEMP	Test and Evaluation Master Plan
TFE	Transportation Feasibility Estimator
TIP	Technology Insertion Project
TIR	Test Incident Report
TLCF	Teleconferencing
TRANSCOM	Transportation Command
USACOM	United States Atlantic Command
USMTF	US Message Text Format
USTC	US Transportation Command
WAN	Wide Area Network
WWMCCS	World Wide Military Command and Control System
WWW	World Wide Web

APPENDIX B

TEST RESOURCES

B-1 Test Sites and Facilities. Modified Developmental Testing and Evaluation for GCCS version 3.0 Stage III will be conducted at four locations: Joint Interoperability Test Command (JITC), Fort Huachuca, Arizona, Central Command (CENTCOM), Mac Dill Air Force Base (AFB), Florida, Transportation Command (TRANSCOM), Scott AFB, Illinois, and the Joint Demonstration and Evaluation Facility (JDEF), Arlington, Virginia.

B-2 Support and Test Equipment. A suite of operating platforms (Sun/HP/PC with software) will be needed for use during the MDT&E without causing a degradation in the site's present mission. Suites for the MDT&E should consist of (up to) the following equipment.

Identification	Quantity	Source
Database server	1	Required test sites
Application server	2	Required test sites
Client workstations	min 2	Required test sites

B-3 Circuit Requirements. Appropriate communications and networking equipment internally and externally via Secret Internet Protocol Router Network (SIPRNET).

B-4 Personnel Requirements

Function	Quantity	Source
Site Test Manager	1	JITC
GCCS-MDT&E 3.0 Site Coordinator	1	Required test sites
System Administrator	1	Required test sites
Security Manager	1	Required test sites
GCCS Users	min 2	Required test sites
Data Collector	1	Required test sites
Subject Matter Expert (SME)	1	Required test sites

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APPENDIX C

SYSTEM DESCRIPTION

C-1 Hardware. The GCCS is an integrated architecture of telecommunications and computer equipment designed to support information sharing between various echelons of command, including the National Command Authority (NCA), the Services and Agencies, Commander -in-Chief (CINCs), CINC Components (the Service elements), and Combined and/or Joint Task Forces (C/JTFs). GCCS provides worldwide user-to-user information exchange for Command and Control (C2), communications, intelligence, functional, and administrative management (e.g., logistics, transportation, personnel, and medical support).

C-2 Software

a. GCCS integrated and replaced several Joint and Service planning and execution systems that were developed for WWMCCS. GCCS developers selected from legacy C2 systems those best suited to integrate as the initial prototype and then incrementally modified the system configuration to evolve into a long-term solution. This process is referred to as "migration." The goal is to provide the warrior with a fused, real-time, true picture of the battlespace and the ability to order, respond, and coordinate vertically and horizontally to perform the mission.

b. The migration of a core JOPES database and data element set from the WWMCCS to a relational database management system (RDBMS) on the GCCS server provided the foundation for an integrated GCCS database from which interfacing applications and systems receive and provide data. Prior to accepting the GCCS version 2.2 as the System of Record, GCCS and WWMMCS operated in paralleled.

C-3 Functional Areas. GCCS capabilities are allocated to four broad functional areas. These functional areas and their respective applications are:

a. C4I Applications. GCCS C4I applications support a span of control from threat assessment and force requirements development through lift, deployment, Sustainment and return. The integration of various intelligence sources and communications links provides the entire GCCS community with a macro-level view. Command, Control, Communications, Computers, and Intelligence (C4I) applications include:

b. Automated Message Handling System (AMHS) provides GCCS users with the capability to work with Automatic Digital Network (AUTODIN) messages,both in transmit and receive mode. AMHS also supports the ability to automatically update various databases, based upon formatted AUTODIN messages.

c. Common Operational Picture (COP) capabilities are provided by the Joint Maritime Command Information System (JMCIS). Display of near real-time and datalinked air, land and sea tracks are an essential COP feature. These tracks can be displayed against Defense Mapping Agency (DMA) raster and vector maps.

d. GCCS Air Tasking Order (ATO) Review Capability (GARC) provides GCCS with the ability to receive and view US Message Text Format (USMTF) ATO Confirmation (ATOCONF) messages disseminated by the Contingency Theater Automated Planning System (CTAPS).

e. Joint Deployable Intelligence Support System (JDISS) is the technical baseline for the DoD Intelligence Information System (DoDIIS) client/ server environment. JDISS includes INTELINK at the Secret classification level. JDISS provides the Joint Intelligence Center (JIC), Joint Task Forces (JTF), and operational commanders with on-site automation support and connectivity to execute the intelligence mission.

f. Global Reconnaissance Information System (GRIS) supports the planning and scheduling of monthly theater reconnaissance reports. GRIS is the culmination of the migration of three other reconnaissance information systems. GRIS also provides monitoring capabilities.

C-4 Planning and Execution Applications. The overarching need for an effective GCCS is a need to have a decision and execution tool that cycles faster than those of the enemy. Tools which achieve this capability are:

a. Joint Operation Planning and Execution System (JOPES) Navigation (JNAV) is a graphical system level navigation application that allows users to easily start GCCS applications and switch between them. These include:

(1) Requirements Development and Analysis (RDA) allows editing of TPFDDS and graphical analysis of Courses Of Action (COAs) with respect to TPFDD modifications. RDA also provides a capability for creating and modifying force and non-unit requirements associated with Operation Plans (OPLANs).

(2) Scheduling and Movement (S&M) handles C2 information on deployment activity and status. S&M tracks and reports on TPFDD requirements. S&M

allows GCCS users to work with Transportation Component Command (TCC) carrier and organic movement data before and during deployment. S&M can provide carrier support for more than one OPLAN. S&M allows user Ad Hoc Queries (AHQs).

(3) Scheduling and Movement Interface (SMINT) provides external systems with an interface to the S&M Client/Server (C/S) system. This interface provides GTN with a means through which it can pass transportation data to the C2 and intransit visibility segments of S&M.

(4) Logistics Sustainment Analysis and Feasibility Estimator (LOGSAFE) uses logistics related attributes, such as unit consumption factors, to calculate time-phased requirements for non-unit related supplies. LOGSAFE can also receive data from Joint Engineer Planning and Execution System (JEPES) and Medical Planning and Execution System (MEPES). Strategic movement requirements can be grouped to optimize lift needs.

(5) Joint Flow and Analysis System for Transportation (JFAST) allows GCCS users to rapidly analyze a COA for deployment and Sustainment. JFAST also provides the ability to generate changes to Force Modules.

(6) Joint Engineer Planning and Execution System (JEPES) provides GCCS users with a capability to determine requirements and adequacy of engineering support provided in OPLAN COAs. JEPES allows planners to develop the Civil Engineering Support Plan (CESP) for an OPLAN. Using pertinent TPFDD data, JEPES can compute facility requirements and determine if adequate facilities exist to support deployed forces.

(7) Real Property Inventory (RPI) allows users to extract engineering asset information from the JEPES Combined Asset file. Errors can then be corrected. JS Directorate for Logistics staff are the primary users.

(8) Force Augmentation Planning and Execution System (FAPES) is a military mobilization decision making tool used to capture and integrate manpower information for deliberate and crisis action planning. FAPES quantifies manpower resources, determines shortfalls and constraints, forecasts time-phased requirements, and monitors mobilization.

(9) Medical Planning and Execution System (MEPES) assists the medical planner in quantifying the impact of an OPLAN on the medical system. MEPES can define Medical Working Files (MWF) and compute medical requirements. MEPES also provides data to LOGSAFE.

(10) Individual Manpower Requirements and Availability System (IMRAS) supports manpower and personnel decision making planning and execution requirements within each of the JOPES mission areas. IMRAS will support development of the personnel estimate for the situation and personnel appendices to the Joint Strategic Planning System (JSPS) documents.

(11) Global Status Of Resources and Training System (GSORTS) is an output application providing status and location of unit data, from the Status Of Resources and Training System (SORTS) database. Unit location can be plotted onto DMA digital map products. GSORTS currently uses all defined Joint data elements and will eventually contain all Service unique elements. GSORTS allows data retrieval by category of unit, type of unit, specific unit and by OPLAN.

(12) Ad Hoc Query (AHQ) is part of S&M. AHQ allows OPLAN end users to query S&M on scheduling and movement requirements for a given OPLAN. A toolkit allows users to build queries and reports, thus minimizing need for specialized knowledge of the database.

(13) Information Resource Management (IRM) is a generalized JOPES core database management subsystem. IRM provides the capability to load, modify, manipulate, and delete OPLAN data. OPLAN access, privileges and auditing are managed through IRM. IRM is also referred to as System Services (SYS SVC).

(14) Transportation Component Command External System Interface (TCC ESI) allows users to identify source requirements for validation and scheduling of movement assets. Transportation relevant data elements can be protected once an OPLAN is locked. The supported CINC can invalidate previously validated movement requirements. The US Transportation Command (USTC) is another user of the TCC ESI.

(15) Reference File Administration (RFA) is used in a centralized location by database analysts to accept Joint Reporting Structure (JRS) input transactions and update reference files.

(16) Information Management Subsystem (IMS) is a Technology Insertion Project (TIP) is a tool for centralized management of TPFDDs. IMS can move and translate TPFDD information between the various GCCS applications, such as Dynamic Analysis and Replanning Tool (DART) and JFAST, and GCCS databases.

(17) Predefined Reports (PDR) provides users with a report generation capability that supports planners in determining force and nonunit requirements during DAP or CAP. PDR allows users to analyze COAs in relation to asset allocations and

TPFDD modifications.

b. Dynamic Analysis and Replanning Tool (DART) is a deployment planning tool to support COA selection and transportation feasibility estimates. Users can analyze COAs in relation to asset allocations and TPFDD modifications. Numerous user functions, such as editing, are available. DART also supports modeling, such as the Rapid Intertheater Deployment Simulator (RAPIDSIM), Prototype Feasibility Estimator (PFE) and the Transportation Feasibility Estimator (TFE). Dart can also transfer TPFDDs to JFAST.

c. Theater Analysis and Replanning Graphical Execution Toolkit (TARGET) is a toolkit for supporting CAP. The tools permit rapid access to documents, information sources, analysis tools, multi-media and teleconferencing tools. TARGET facilitates COA development and analysis among the Joint Planning and Execution Community (JPEC).

C-5 Mission Support Applications. GCCS, v3.0 currently provides three mission support applications, listed below. As the DoD=s mission support applications are integrated into the DII, they will become available to GCCS users, as appropriate.

a. Airfields provides GCCS users with comprehensive information on over 40,000 free world airfields. This information is supplied by the Defense Mapping Agency Aerospace Center (DMAAC). Reports provide one line summaries for each listed airfield. The database is updated monthly.

b. Fuel Resource Analysis System (FRAS) provides planners with an automated capability for determining supportability of a deliberate or crisis action plan. FRAS also generates the time-phased bulk petroleum requirements to support an Operation Order (OPORD). FRAS facilitates the review of fuel requirements for an OPLAN and assessment of adequacy of available resources. Requirements can

be generated and analyzed by overall OPLAN, regions within the OPLAN, Service and within a Service by region. Intensity tables and consumption data can be used in requirements generation.

c. Evacuation File Maintenance and Retrieval System (EVAC) is a JS and State Department automated computer database and retrieval system used to identify the number of potential evacuees located at each reporting foreign service post worldwide. Retrieval is allowed by country and districts within a country. Information is received from AF77" reports from the AMHS.

C-6 Common Operating Environment (COE) Support Applications. COE Support Applications provide four user services, listed below. The primary objective is to furnish, generic, Commercial Off the Shelf (COTS) based information transfer services to the GCCS user community and their applications.

a. Office Automation is supported by a suite of Applixware COTS products, including Applix Words, Applix Spreadsheets, Applix Mail, Applix Power Brief and Applix Ovation. The latter is a presentation application that communicates with DOS based systems.

b. Teleconferencing (TLCF) Two applications provide GCCS users with teleconferencing functions. A third application provides a World Wide Web information search and retrieval capability.

(1) Internet Relay Chat (IRC) is a chatter style application that allows multiple users to participate in conferences. Several types of channels, with varying degrees of privacy, can be established.

(2) Internet News provides access to a bulletin board style broadcast service. Articles posted to the bulletin board are arranged by newsgroups. Various functions are supported, including the ability to trace a subject through a series of articles within a newsgroup and send correspondence to article authors.

(3) World Wide Web (WWW) browser service is provided through Netscape. The GCCS user may retrieve information through queries or links to other documents or websites.

c. TELNET provides the GCCS user with the ability to log-in and use the application resources of any server across the network. The principal function of TELNET is to initiate text based or X-Windows applications, which, because of application design or security, must be executed from a specific server instead of from the users local hardware.

d. File Transfer Protocol (FTP) is used to directly control the transfer of files to and from a distant server. FTP is especially useful in transferring large files and is recommended when e-mail attachments exceed 500K bytes..

C-7 Communications

a. The Defense Information Systems Network (DISN) provides backbone communications for GCCS. The DISN is a collection of voice and data networks composed of multiplexers, cryptographic devices, routers, and other devices combined to create a worldwide information transfer infrastructure. DISN includes several router-based layers, each of a different classification level. The SECRET router layer is the SIPRNET. Each GCCS site LAN includes a premise router that serves as the gateway to the SIPRNET wide area network (WAN). Communications servers support dial-in access to GCCS via Secure Telephone Unit (STU) or dedicated multiplexer circuits.

b. The Automated Digital Network (AUTODIN) will provide record message capability to GCCS sites through the AMHS. Each site will have its own connection to AUTODIN until the Defense Message System (DMS) replaces it. In addition to record message capability, AUTODIN (and eventually DMS) connectivity will provide USMTF capability for transferring information among GCCS sites.

C-8 Development Approach. GCCS is not a new development program. GCCS developers integrated existing C2 systems under an open system environment, providing a separate client/server interface to those systems. GCCS is a "system of functionality's." Functionality is being added to the GCCS incrementally. It uses a client-server architecture with COTS hardware in a COE. Core functions and applications software packages were selected from migration candidates satisfying selection criteria proposed by the program manager and approved by the GCCS Advisory Board in accordance with CJCSI 6721.01 Global Command and Control Management Structure and the GCCS Functional Requirements Evaluation Procedures.

C-9 Client-server Environment. Throughout the development, emphasis has been on migration to an integrated client-server environment under the GCCS COE.

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APPENDIX D

MISSION TASKS AND MISSION SUPPORT TASKS

The following information has been extracted from the GCCS User Characterization Profile and other sources to produce a partial listing of possible mission/mission support tasks for testing GCCS Version 3.0.

Crisis Action Procedures. CAP provides a framework for describing the unfolding of a crisis requiring a military response. Table 1 lists the six CAP phases.

Table 1. CAP Phases

Phase	Title
I	Situation Development
II	Crisis Assessment
III	Course of Action Development
IV	Course of Action Selection
V	Execution Planning
VI	Execution

Each phase is punctuated by one or more scenario events. The scenario event usually triggers a response from one or more of the JPEC players in the crisis. Many responses consist of an activity supported by the GCCS. The trace from a scenario event to the GCCS activity performed by specific JPEC member(s) is contained in the CAP Matrix that follows.

Participant. The scenario event triggers a response/action at certain levels in the JPEC. The actions contained in the matrix are limited to those participants with the most GCCS play. The participants listed in the matrix are:

CJCS - Chairman of the Joint Chiefs of Staff
SPD - Supported Commander
SPG - Supporting Commander
USTC - United States Transportation Command
SVC - Services

Tasking arrangement. Tables 2 through 7 contain the mission tasks for each respective phase. Table 8 contains additional mission tasks which were not specified in the GCCS User Characterization Profile, but each user should integrate these tasks into table 2 through 7 where most appropriate for their activity. In addition, each user should test desktop functions and other supporting applications within appropriate mission task areas.

Table 9 contains other Mission Support Tasks for Systems Administrators, Security Administrators, Database Administrators, Functional Database Managers, and Track Database Managers.

Table 2. Mission Tasks, Crisis Action Planning Matrix, Phase I

Phase I - Situation Development
Phase I begins with an event having possible national security implications and ends when the CINC submits his assessment of the situation to the National Command Authority (NCA) and the Chairman of the Joint Chiefs of Staff.

PARTICIPANT	BACKGROUND ACTION	MISSION TASK	OUTPUT/PRODUCT	ANTICIPATED APPLICATIONS
CJCS	Monitor the situation and evaluate reports from all sources; Request an assessment report from the supported commander	Generate a GENSER message to SPD	Message to SPD	AMHS
SPD	Review message	Provide a CINC's assessment report	OPREP-3 message	AMHS

Table 3. Mission Tasks, Crisis Action Planning Matrix, Phase II

Phase II - Crisis Assessment
Phase II begins with a report from the supported commander and ends with a decision by the NCA to return to the pre-crisis situation, or to have military options developed for possible consideration and possible use.

PARTICIPANT	BACKGROUND ACTION	MISSION TASK	OUTPUT/PRODUCT	ANTICIPATED APPLICATIONS
ALL	Anticipation of action	Review OPLANs and CONPLANs for applicability	List of available/applicable plans	RDA AHQ
ALL	Anticipation of action	Review force readiness	Unit readiness reports	GSORTS AHQ
CJCS	Request SPD take action	Request SPD establish a crisis Newsgroups	Message to SPD	AMHS
SPD	Respond to message	Implement the crisis Newsgroups	Newsgroups established; message to participants to join	Newsgroups AMHS
ALL	Respond to message	Subscribe to Newsgroups	Newsgroups actions	Newsgroups
CJCS	Require USTC review strategic lift asset employment availability	Generate a Newsgroups message to USTC	Newsgroups message	Newsgroups
USTC	Review the status of strategic lift assets	Review lift asset availability; Review lift asset status	Lift Asset Reports	GSORTS
USTC & SPD	Determine amount of lift available for operation	Publish numbers of lift assets to be made available	Updated transportation Models	Newsgroups ADANS STRADS SEASTRADS

Table 4. Mission Tasks, Crisis Action Planning Matrix, Phase III

Phase III - Course of Action Development
Phase III begins with a decision to develop possible military Courses of Action (COAs), normally transmitted by a CJCS Warning Order, and ends when COAs are presented to the NCA.

PARTICIPANT	BACKGROUND ACTION	MISSION TASK	OUTPUT/PRODUCT	ANTICIPATED APPLICATIONS
CJCS	Establish command relationships; State mission, objectives, and known constraints; Direct the development of COAs	Publish Warning Order	Warning Order message published	Newsgroups AMHS
ALL except CJCS	Respond to Warning Order; Initiate development of possible COAs using GCCS	Review existing OPLANs/ TPFDDs	Existing files access	RDA AHQ GSORTS
ALL	Update an existing OPLAN	Refine existing supported/supporting OPLANs/TPFDDs	Modified OPLAN/TPFDD	RDA AHQ GSORTS
SPD	Initiate development of new COAs /TPFDDs	Develop new COAs/TPFDDs using GCCS	Newly initiated plan	SS RDA
ALL except SPD and CJCS	Receive new TPFDD	Review and modify new TPFDD	Updated new TPFDD	RDA AHQ PDR GSORTS IMS DART

Table 4. Mission Tasks, Crisis Action Planning Matrix, Phase III (continued)

PARTICIPANT	BACKGROUND ACTION	MISSION TASK	OUTPUT/PRODUCT	ANTICIPATED APPLICATIONS
SPD	Prepare new TPFDD for evaluation	Generate sustainment records for the new TPFDD using JEPES	TPFDD file processing	JEPES LOGSAFE
		Generate sustainment records for the new TPFDD using MEPES	TPFDD file processing	MEPES LOGSAFE
		Generate sustainment records for the new TPFDD using LOGSAFE	TPFDD file processing	LOGSAFE
SPD	Request evaluation of proposed COAs	Publish an Evaluation Request; Evaluate availability, combat readiness and suitability of forces; Evaluate availability of sustainment; Evaluate database completeness	Newsgroups Evaluation Request	Newsgroups
ALL except SPD and CJCS	Receive and review Evaluation Request	Perform an evaluation of the COAs/TPFDDs	Logical Errors Report; TCC Pre-edit Report	RDA AHQ PDR
SPD	Fatal Error Free TPFDD required for transportation analysis	Produce a Fatal Error Free TPFDD	Logical Errors Report; TCC Pre-edit Report TPFDD ready for transportation analysis	Newsgroups RDA
SPD	Request Deployment Estimate by USTC	Request USTC develop a preliminary Deployment Estimate	Newsgroups request for Deployment Estimate	Newsgroups

Table 4. Mission Tasks, Crisis Action Planning Matrix, Phase III (continued)

PARTICIPANT	BACKGROUND ACTION	MISSION TASK	OUTPUT/PRODUCT	ANTICIPATED APPLICATIONS
USTC	Review the request for a Deployment Estimate	USTC conduct Deployment estimates on each viable COA/TPFDD	Land summary and associated graphs and reports; Sea summary and associated graphs and reports; Air summary and associated graphs and reports; Airlift summary profile; Sealift summary profile; Lateness by supply class reports; Force Module Closure Profiles	SS JFAST
		Prepare and submit Deployment Estimate Response message	Deployment Estimate Response message	Newsgroups
SPG	Preparation and submission of Evaluation Response to the SPD; Review of Deployment Estimate Response	Prepare an Evaluation Response message (OPREP-1)	Evaluation Response message	Newsgroups
SPD	Preparation and submission of Commander's Estimate; Recommendation of a COA; Review of Evaluation Response	Prepare and submit the Commander's Estimate	Commander's Estimate	Newsgroups
ALL	Review of Commander's Estimate			

Table 5. Mission Tasks, Crisis Action Planning Matrix, Phase IV

Phase IV - Course of Action Selection
Phase IV begins when COAs are presented to the NCA and ends when a COA is selected. The primary activity in this phase of crisis planning rests with the Chairman of the Joint Chiefs of Staff and NCA. All other members of the JPEC continue their activities as described in Phases II and III.

PARTICIPANT	BACKGROUND ACTION	MISSION TASK	OUTPUT/PRODUCT	ANTICIPATED APPLICATIONS
CJCS	Review and Evaluate COAs presented in the Commander's Estimate; Alert Order is published directing execution planning activities commence for Selected COA	Alert Order published directing execution planning activities commence for Selected COA	Alert Order	Newsgroups AMHS
ALL	Receive and review Alert Order			Newsgroups
SPD	Publish a TPFDD Letter of Instruction (LOI)	Publish a TPFDD LOI that provides procedures for the deployment, replacement, and redeployment of the forces in support of Selected COA	TPFDD LOI	Netscape Newsgroups

Table 6. Mission Tasks, Crisis Action Planning Matrix, Phase V

Phase V - Execution Planning
Phase V begins when a Planning or an Alert Order is received and ends when an executable OPORD is developed and approved for execution on order.
Based on receipt of the Alert Order, activities commence for further selected COA refinement and preliminary scheduling activities.

PARTICIPANT	BACKGROUND ACTION	MISSION TASK	OUTPUT/PRODUCT	ANTICIPATED APPLICATIONS
NOTE: The following incremental cycle includes: validation of movement requirements, scheduling of organic and strategic lift, the allocation of requirements to carriers, the reporting of actual carrier movements, and the manifesting of requirements to carriers. Any carrier itinerary changes or diversions will continue until the deployment is complete or the crisis subsides (combined Phases V and VI).				
SPD SPG USTC	Review the TPFDD LOI	Confirm and adjust selected COA force requirements/sustainment requirements and priorities	Adjusted TPFDD	RDA AHQ
SPG SPD	TPFDD adjusted to LOI	Schedule/allocate organic movements for the first increment of deployment	Scheduled TPFDD	S&M
SPG	TPFDD scheduled	Identify force and sustainment shortfalls	Shortfalls listings	RDA AHQ Newsgroups
SPD	Review SPG force and sustainment shortfall messages	Validate the first deployment increment (first 7 days of airlift and first 30 days of sealift)	Transportation Pre-edit Report; Validated first deployment increment	RDA PDR
SPD	Validated first deployment increment	Notify the JPEC when the first deployment increment is validated	Validation message	Newsgroups TCCESI

Table 6. Mission Tasks, Crisis Action Planning Matrix, Phase V (continued)

PARTICIPANT	BACKGROUND ACTION	MISSION TASK	OUTPUT/PRODUCT	ANTICIPATED APPLICATIONS
ALL	Receive and review Validation message			Newsgroups
USTC (AMC)	Validated increments will be scheduled	Develop and enter Common-User Air Movement Schedules (7 days)	7 days of air schedules	S&M GTN ADANS TCCESI
USTC (MTMC) (MSC)	Validated increments will be scheduled	Develop and enter Common-User Surface Lift schedules (30 days)	30 days of surface schedules	S&M GTN TCCESI
SPG	Validated increments will be scheduled	Develop and enter organic carrier schedules	Schedules for non-strategic lift legs	S&M
SPD	The SPD converts the COA into an OPORD	Convert the COA and publish an OPORD	Newsgroups OPORD	Newsgroups
ALL	Receive and review OPORD			Newsgroups

Table 7. Mission Tasks, Crisis Action Planning Matrix, Phase VI

Phase VI - Execution
Phase VI begins with the decision to execute an Operation Order (OPORD), normally transmitted by a CJCS Execute Order, and continues until the crisis is resolved satisfactorily.

PARTICIPANT	BACKGROUND ACTION	MISSION TASK	OUTPUT/PRODUCT	ANTICIPATED APPLICATIONS
CJCS	An Execute Order is published and issued directing the supported commander to execute his OPORD; The order directs the deployment/ employment of forces in selected COA	Issue Execute Order	Execute Order	Newsgroups AMHS
ALL	Direct mobilization activities; Coordinate with personnel centers and logistic agencies; Identify and confirm sustainment requisitions	Monitor the initial deployment of forces; Review deployment status of ULNs, UICs and Force Modules	Execution of movement	Newsgroups AHQ RDA S&M PDR
USTC (AMC)		Report Strategic Airlift Arrival and Departures for the first increment of movement (first 7 days)	Airlift movement	S&M
USTC (MTMC) (MSC)		Report Common-User Surface Lift Arrival and Departures for the first increment of movement (first 30 days)	Surface movement	S&M GTN
SPG	Actual arrivals/departures will be reported	Report arrivals and departures of non-strategic carriers	Non-strategic carrier movement reports	S&M
SPD	JTF Deploys forward	Deploy GCCS forward	All required GCCS functionality usable in an austere comms envirm	ALL

Table 8. Additional Mission Tasks

The following mission tasks are not included in the GCCS User Characterization Profile. They need to be inserted into the testing at appropriate places.

PARTICIPANT	BACKGROUND ACTION	MISSION TASK	OUTPUT/PRODUCT	ANTICIPATED APPLICATIONS
EVAC User	Non-combatant personnel need to be evacuated from area of interest (AOI)	Produce and print an evacuation list for country and district of AOI	EVAC report	EVAC
		Produce and print Evacuation Summary for country of AOI	EVAC summary report	EVAC
FRAS User	Fuel requirements must be programmed into planning	Produce and print a fuel resources report	Two FRAS files to process on PC FRAS	FRAS extract PC FRAS
Air Field Planner	Usable airfields must be made known to movement planners	Produce Airfields report for AOI	Airfields report	Airfields
Common Operational Picture Users	Maps for AOI may be viewed as desired, with available tracks for all reported activity	Bring up Common Operational Picture (COP) without filters set	Display of map and tracks (may be very cluttered, depending on amount of message traffic)	COP
		Filter out undesired tracks	Less cluttered display	COP
	Users without COP processing can view a snapshot of COP by using ELVIS (in receive only mode)	This task will require co-located COP and non-COP workstations; Visually verify that the ELVIS picture matches the COP Picture	Active COP picture and ELVIS snapshot agree	COP ELVIS
TARGET users	Additional tools available	Exercise the TARGET functionality		TARGET MATT

Table 8. Additional Mission Tasks (continued)

PARTICIPANT	BACKGROUND ACTION	MISSION TASK	OUTPUT/PRODUCT	ANTICIPATED APPLICATIONS
UB	Air Tasking Orders can be reviewed, segmented, and segments transmitted to components as needed	Receive an ATO	ATO message	UB
		Segment the ATO	Segments of ATO	UB
		Transmit the ATO segments to the components they apply to	Transmitted segments received by components	UB
COP Users	Execution of ATO results in air tracks being reported which will then appear in COP	Verify that during ATO execution, the reported air tracks correlate to the aircraft designated in the ATO	Air tracks in COP match ATO plans	COP
Intelligence System Users	Intelligence mission requires access to resources	Provide an intelligence resources report	Resources report	GRIS
		Produce a request for intelligence support	Intelligence support request	COLISEUM
JDISS Users		Execute the intelligence mission	Intelligence gathering of imagery and sensor data	JDISS
SVC	Service feeder systems must support GCCS with the new operating systems, new DII COE and new Oracle Relational Database Manager	Each service verify that the interfaces still work correctly	Services Interface Files	COMPASS COMPES MAGTF II RUDRS AMHS Newsgroups IRC
SVC/remote users	Access to documentation must be verified	Access GCCS homepage and view/ download new documents	Documents on line	Netscape Browser

Table 8. Additional Mission Tasks (continued)

PARTICIPANT	BACKGROUND ACTION	MISSION TASK	OUTPUT/PRODUCT	ANTICIPATED APPLICATIONS
SVC	**Maintenance of and access to Status of Resources and Training (SORTS) must be verified**	**Each service use access through GSORTS to verify that the service updates to SORTS is being processed and passed to GSORTS and GCCS users**	**GSORTS listing of selected service units**	**GSORTS SORTS**

Mission Support Tasks. The following table presents examples of Mission Support Tasks. These tasks are primarily for Systems Administrators, Security Administrators, Database Administrators, Functional Database Managers, and Track Database Managers.

Table 9. Mission Support Tasks

PARTICIPANT	BACKGROUND ACTION	MISSION SUPPORT TASK	OUTPUT/PRODUCT	ANTICIPATED APPLICATIONS
System Administrator (SA)	SA is responsible for nstalling GCCS applications on local site	Determine local site configuration unique settings	List of unique settings, equipment, and application install requirements	Pre-planning
		De-install segments to be replaced	Cleaned out disk space	Command line or INSTALLER
		Install new Solaris	New operating system	INSTALLER
		Install new Desktop/EM server	New EM Server	INSTALLER
		Install new RDBMS (ORACLE)	New RDBMS	INSTALLER
	Establish/update the domain name service	Install the local domain name server	Local DNS Server	INSTALLER
		Update DNS as needed	Updated DNS	DNS Admin
	Establish/update the NIS+ service	Install the local NIS+Server	Local NIS+ Server	Command line
		Create NIS+ replicas		Command line
		Update NIS+ as needed	Updated NIS+	NIS+ Admin
	Install new segments in proper order	Install new segments in proper order	New segments on system	INSTALLER

Table 9. Mission Support Tasks (continued)

PARTICIPANT	BACKGROUND ACTION	MISSION SUPPORT TASK	OUTPUT/PRODUCT	ANTICIPATED APPLICATIONS
System Administrator (SA)	Provide printer support to users	Configure and manage printers for user access	Current printer file printer table	PRINTER Admin
	Users require accounts and permissions to access applications	Provide accounts for database user	DBUSER tables	DBUSER
		Provide user accounts for general access	User account groups	EM
	Users require accounts and permissions to access applications	Set permissions	User permissions	EM
	Software licenses must be available and administered to provide user access to applicable applications	Acquire licenses as required; Provide user access	Usable licensed applications	License Admin
	Provide for configuration management	Apply file and directory listings of all applications	File system management	Command line
	Provide Apply user support	Process Inter-relationship specifications	System Trouble shooting	Command line
	Teleconferencing capabilities must be provided to users	Install teleconferencing applications	Teleconference capabilities	IRC Newsgroups World Wide Web
	Provide mail service	Install mail service	Sendmail application	Command line Solaris

Table 9. Mission Support Tasks (continued)

PARTICIPANT	BACKGROUND ACTION	MISSION SUPPORT TASK	OUTPUT/PRODUCT	ANTICIPATED APPLICATIONS
		Maintain mail admin files	Usable mail system	Sendmail
SA (continued)	Provide problem corrections	Halt system operations	All processing stops	
		Reboot system in single user mode	Only root user (SA) can access system	
		Reboot system in normal mode	All authorized users may log in and process applications	
	Provide system backup and recovery services	Perform routine scheduled backups	Backup files on tape or disc	Backup procedures
		When needed, perform system recovery actions	Recovered system; ready to resume processing	Recovery procedures
	Provide GSORTS administration	Provide for GSORTS updated information	Up-to-date GSORTS files	
SA and/or Sec Mgr	Provide security aspects of mission support	Setup and maintain user access accounts	User accounts files	
		Setup and maintain system and user profiles	Profile tables	
		Maintain roles in account groups	Account group roles	

Table 9. Mission Support Tasks (continued)

PARTICIPANT	BACKGROUND ACTION	MISSION SUPPORT TASK	OUTPUT/PRODUCT	ANTICIPATED APPLICATIONS
		Provide system audit capabilities	Audit logs	
		Provide password administration	Password controls	
DataBase Administrators (DBA)	Provide reliable database support to authorized users	Establish and maintain authorized database structure	Prescribed databases	Oracle Tools
		Perform database backup	Backup data on storage media	Oracle Tools
		Provide database recovery	Reload data from backup and process files	Oracle Tools
	Provide database maintenance capability	Apply Entity Relationship Model/ Diagram and Data Dictionary	Database Management	Command line
	Provide for alternate database access	Provide for user access and permissions at alternate database sites	User access and permissions files at alternate database site	Oracle Tools
		Provide alternate database access when needed	Remote database access to alternate site	

Table 9. Mission Support Tasks (continued)

PARTICIPANT	BACKGROUND ACTION	MISSION SUPPORT TASK	OUTPUT/PRODUCT	ANTICIPATED APPLICATIONS
JOPES Functional Database Manager (FDBM) or Track Database Manager (TDBM) as appropriate	Use the JOPES FDBM or TDBM responsibilities listing as a guide to test and evaluate mission support functions in the following areas:			
	Administrative	Permissions management		
		Teleconferencing (Newsgroups)		
		Installations		
		Backup/Recovery (JOPES Database)		
		Backup/recovery Individual TPFDDs		
		Continuity of Operations Plan (COOP)		
		Admin reporting (management)		
	OPLAN Management	OPLAN initialization		
		OPLAN type/distribution/access		
		OPLAN status		
		OPLAN offload/reload		
		OPLAN deletes		

Table 9. Mission Support Tasks (continued)

PARTICIPANT	BACKGROUND ACTION	MISSION SUPPORT TASK	OUTPUT/PRODUCT	ANTICIPATED APPLICATIONS
		Set C-Day/L-Hour		
		Reset C-Day/TCC indicators		
		OPLAN synchronization		
		Reporting (user)		
FDBM or TDBM (continued)	Network management/monitoring	Site status		
		Transaction processing/flow (local)		
		Database maintenance and statistics		
		Transaction processing/flow (distributed network)		
		Reporting (transactions)		
	Provide JMCIS administration	Provide for JMCIS channels and JMCIS feeds	Up-to-date JMCIS files	

Appendix E

Test Cases

Table E-1. AHQ Functional Tests

	TEST FUNCTION	PERSONS REQ=D	DURATION In Hours
1	Build/Save/Execute an Ad Hoc Query to Screen - Requirements Data.	1	0.5
2	Build/Save/Execute an Ad Hoc Query to Screen - Scheduling and Movement Data.	1	0.5
3	Build/Save/Execute an Ad Hoc Query to Screen - Unit Information Data.	1	0.5
4	Build/Save/Execute an Ad Hoc Query to Screen - Requirements with Movement Data.	1	0.5
5	Build/Save/Execute an Ad Hoc Query to Screen - Movements with Requirements Data.	1	0.5
6	Build/Save/Execute an Ad Hoc Query to Screen - Requirements with Unit Information Data.	1	0.5
7	Build/Save/Execute an Ad Hoc Query to Screen - Requirements with S&M with Unit Information Data.	1	0.5
8	Retrieve a Previously Saved Ad Hoc Query to Screen and Print - Requirements Data.	1	0.25
9	Retrieve a Previously Saved Ad Hoc Query to Screen and Print - Scheduling and Movement Data.	1	0.25
10	Retrieve a Previously Saved Ad Hoc Query to Screen and Print - Unit Information Data.	1	0.25
11	Retrieve a Previously Saved Ad Hoc Query to Screen and Print - Requirements with Movement Data.	1	0.25
12	Retrieve a Previously Saved Ad Hoc Query to Screen and Print - Movement with Requirements Data.	1	0.25
13	Retrieve a Previously Saved Ad Hoc Query to Screen and Print - Requirements with Unit Information Data.	1	0.25
14	Retrieve a Previously Saved Ad Hoc Query to Screen and Print - Requirements with Scheduling and Movement with Unit	1	0.25

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours
15	Export and Import an Ad Hoc Query.	1	0.5
16	Build an Ad Hoc Query using Totals and Subtotals.	1	0.5
17	Build/Save/Execute an Ad Hoc Query with a Default of ULN/CIN/PIN.	1	0.25
18	Build and Execute an Ad Hoc Query with a Default C-Day Preference of Real Dates.	1	0.25
19	Execute an Ad Hoc Query and Access APPLIX Spreadsheet.	1	0.25
20	Execute a Batch Ad Hoc Query - Requirements Data.	1	0.25

Table E-2. C2PC Functional Tests

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours
1	Gateway/Client Connectivity with three separate machines	1	3.0
2	Gateway/Client Connectivity with two separate machines	1	2.0
3	Toolbar Functions and Windowing Capabilities	1	2.0
4	Track Data Processing and Track Display Capabilities	1	3.0
5	Opnote Capabilities	1	1.5
6	Overlay Capabilities	1	2.0
7	Map Data Functions	1	2.0
8	Help Functions	1	1.0

Table E-3. DARWIN Functional Tests

	TEST FUNCTION	PERSONS REQ=D	DURATION In Hours
1	LOGON	1	3.0
2	...	1	5.0
3	...	1	6.0
.	...	1	6.0
.	...	1	3.0
.	...	1	4.0
.	...	1	4.0

Table E-4. DB SELECT (CHAR) Functional Tests

	TEST FUNCTION	PERSONS REQ=D	DURATION In Hours
1	Generate and Transfer User Account Files to a Remote Site	1	1.0
2	Import User Accounts at a Remote Site	1	3.0
3	Repoint Database	1	2.0
4	Access Remote Database	1	2.0

Table E-5. DB SELECT (GRA) Functional Tests

	TEST FUNCTION	PERSONS REQ=D	DURATION In Hours
1	Generate and Transfer User Account Files to a Remote Site	1	1.0
2	Import User Accounts at a Remote Site	1	3.0
3	Repoint Database	1	2.0
4	Access Remote Database	1	2.0

Table E-6. DBUSER Functional Tests

	TEST FUNCTION	PERSONS REQ=D	DURATION In Hours
1	Delete User Roles; Grant User Roles; Revoke User Roles	1	2.0
2	Revoke Multiple Users Roles; Grant Multiple Users Roles	1	3.0

Table E-7. TCC ESI Functional Tests

	TEST FUNCTION	PERSONS REQ=D	DURATION In Hours
SUPPORTED CINC USER TEST			
1	Pretest Procedures To Restore Test Database	1	1.0
2	Supported CINC Validation - Reports Only	1	0.5
3	Supported CINC Validation - Actual Validation And Reports	1	1.0
4	Supported CINC Status Flag Override	1	1.0
5	Reports and Utilities - List Carriers	1	1.0
6	Reports and Utilities - Delete Carriers	1	0.5
7	Delete TCC Interface Files	1	0.5

	TEST FUNCTION	PERSONS REQ=D	DURATION In Hours
USTC USER TEST			
8	Pretest Procedures To Restore Test Database	1	1.0
9	Supported CINC Validation - Reports Only	1	0.5
10	Supported CINC Validation - Actual Validation And Reports	1	1.0
11	Supported CINC Status Flag Override	1	1.0
12	Reports and Utilities - List Carriers	1	1.0
13	Reports and Utilities - Delete Carriers	1	0.5
14	Delete TCC Interface Files	1	0.5
15	USTC Status/Problem Flag Override	1	1.0
16	USTC Requirements Pull	1	1.0
AMC USER TEST			
17	Pretest Procedures To Restore Test Database	1	1.0
18	TCC Status/Problem Flag Override	1	0.5
19	Reports and Utilities - List Carriers	1	1.0
20	Reports and Utilities - Delete Carriers	1	0.5
21	Delete TCC Interface Files	1	0.5
MSC USER TEST			
22	Pretest Procedures To Restore Test Database	1	1.0
23	TCC Status/Problem Flag Override	1	0.5
24	Reports and Utilities - List Carriers	1	1.0
25	Reports and Utilities - Delete Carriers	1	0.5
26	Delete TCC Interface Files	1	0.5

Table E-8. JOPES Subsystem Multi-Node Functional Tests

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours
1	Initiate a Local Restricted OPLAN 123AA	1	0.5
2	Change Access on OPLAN 123AA.	1	0.5
3	Reload OPLAN 140RQ and distribute it Normal Access.	1	6.0
4	Review OPLAN 123AA for Correct Distribution.	3	0.5
5	Review OPLAN 156BB Summary Information	3	0.5
6	Review OPLAN 156BB for Correct Distribution.	3	0.5
7	Review OPLAN 123AA Summary Information.	3	0.5
8	Change OPLAN 123AA and 156BB Narrative Information.	1	0.5
9	Create New ULNs, CINs, PINs for OPLAN 123AA.	1	2.0
10	Change Army ULNs/CINs/PINs in OPLAN 123AA.	1	1.0
11	Change Air Force ULNs/CINs/ PINs in OPLAN 123AA.	1	1.0
12	Change Army ULNs/CINs/PINs in OPLAN 156BB.	1	1.0
13	Change Air Force ULNs/PINs in OPLAN 156BB.	1	1.0
14	Add Fourth Level of Detail to Army ULN in OPLAN 123AA.	1	1.0
15	Add Fourth Level of Detail to Air Force ULN in OPLAN 123AA.	1	1.0
TEST FUNCTION		**PERSONS REQ=D**	**DURATION In Hours**

16	Add Fourth Level of Detail to Army ULN in OPLAN 156BB.	1	1.0
17	Add Fourth Level of Detail to Air Force ULN in OPLAN 156BB.	1	1.0
18	Generate an OPLAN Narrative Report (A5) for OPLANs 123AA and 156BB.	3	1.0
19	Review New/Modified Army/Air Force ULNs/CINs/PINs in OPLAN 123AA.	3	0.5
20	Generate a Time Phased Transportation Requirements Working Paper (F11E - TN) for OPLAN 156BB Army and Air Force Requirements.	3	1.0
21	In OPLAN 123AA, Review Army and Air Force ULNs with Fourth Level of Detail.	3	0.5
22	In OPLAN 156BB, Review Army and Air Force ULNs with Fourth Level of Detail.	3	0.5
23	In OPLAN 156BB, Create Force Module A1A for Army Units	1	0.5
24	In OPLAN 156BB, Create Force Module F1F for Air Force Units.	1	0.5
25	In OPLAN 123AA, Create Force Module A1A for Army Units.	1	0.5
26	In OPLAN 123AA, Create Force Module F1F for Air Force Units.	1	0.5
27	In OPLAN 156BB, add Marked Records to Force Module A1A.	1	0.5
28	In OPLAN 156BB, add Marked Records to Force Module F1F.	1	0.5
29	Copy FM A1A from OPLAN 156BB to OPLAN 123AA and Rename It.	1	1.0

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours
30	Copy FM F1F from OPLAN 156BB to OPLAN 123AA and Rename It.	1	1.0
31	Modify FM A1A in OPLAN 123AA.	1	0.5
32	Modify FM F1F in OPLAN 123AA.	1	0.5
33	Modify FM A1A in OPLAN 156BB.	1	0.5
34	Modify FM F1F in OPLAN 156BB.	1	0.5
35	Generate a Force Module Report for OPLAN 123AA FM Id A1A.	3	1.0
36	Generate a Force Module Report for OPLAN 123AA FM Id F1F.	3	1.0
37	Generate a Force Module Report for OPLAN 123AA FM Id A2A.	3	1.0
38	Generate a Force Module Report for OPLAN 123AA FM Id F1F.	3	1.0
39	Generate a JSIT Report for OPLAN 156BB FM Id A1A.	3	0.5
40	Generate a JSIT Report for OPLAN 156BB FM Id F1F.	3	0.5
41	In OPLAN 156BB, create FM P1A for Pre-Conflict Forces	1	0.5
42	In OPLAN 156BB, Add Army ULNs to the FM P1A.	1	0.5
43	In OPLAN 156BB, Add Air Force ULNs to the FM P1A.	1	0.5
44	Copy FM P1A from OPLAN 156BB to OPLAN 123AA.	1	1.0

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours
45	Renumber ULNs in FM P1A, OPLAN 123AA.	1	1.0
46	Shift TPFDD Dates for Army Records in FM P1A, OPLAN 123AA.	1	0.5
47	Shift TPFDD Dates for Air Force Records in FM P1A, OPLAN 123AA.	1	0.5
48	Change Routing Information for Army Records in FM P1A, OPLAN 123AA.	1	0.5
49	Change Routing Information for Air Force Records in FM P1A, OPLAN 123AA.	1	0.5
50	Generate a TPTRL - SQ Report for FM P1A, OPLAN 123AA, for Force Module P1A	3	0.5
51	Generate a TPTRL - SQ Report for FM P1A, OPLAN 156BB, for Force Module P1A	3	0.5
52	In OPLAN 156BB, Create Split Shipment Army ULNs.	1	0.5
53	In OPLAN 156BB, Create Split Shipment Air Force ULNs.	1	0.5
54	In OPLAN 156BB, Fragment Army ULNs.	1	0.5
55	In OPLAN 156BB, Fragment Air Force ULNs.	1	0.5
56	In OPLAN 156BB, Edit a Collection of Army ULNs.	2	0.5
57	In OPLAN 156BB, Edit a Collection of Air Force ULNs.	1	0.5

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours
58	Generate a Force List/Movement Requirement Working Paper (F11D) Report for Split Shipped Army and Air Force ULNs in OPLAN 156BB.	3	1.0
59	Generate a Force List/Movement Requirement Working Paper (F11D) Report for Fragmented Army and Air Force ULNs in OPLAN 156BB.	3	0.5
60	Review Edited Army and Air Force ULNs in OPLAN 156BB using AHQ.	3	0.5
61	Reload OPLAN 120DX as a Local OPLAN 189CC at Site 1.	1	6.0
62	Initiate a New OPLAN (103AA) for COA 3 and Distribute to Sites 1, 2, and 3.	1	1.0
63	Merge OPLAN 189CC to OPLAN 103AA.	1	3.0
64	Index Carrier Support to OPLAN 103AA - Use 12 Selected Carriers from OPLAN 189CC.	1	1.0
65	Review Carriers - Verify that the Carrier Lists in OPLAN 103AA and 189CC are Identical.	3	0.5
66	Generate a PID Compare report for OPLANs 189CC and 103AA.	3	0.5
67	Distribute OPLAN 103AA to Site 4	1	1.5
68	Update OPLAN 103AA from TUCHA.	4	1.0
69	Review OPLAN 103AA for Correct distribution to Site 4	4	0.5
70	Review OPLAN Summary for OPLAN 103AA.	4	0.5

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours
71	Review TUCHA Updates for OPLAN 103AA.	4	1.0
72	Distribute OPLAN 123AA to USTRANSCOM	1	1.5
73	Generate a TCC Pre-Edit Report for the first Increment of Air/AMC Movement in OPLAN 123AA (Army Forces).	1	1.0
74	Generate a TCC Pre-Edit Report for the first Increment of Air/AMC Movement in OPLAN 123AA (Air Force Forces).	1	1.0
75	Generate a TCC Pre-Edit Report for the first Increment of Sea/MSC Movement in OPLAN 123AA (Army Forces)	1	1.0
76	Generate a TCC Pre-Edit Report for the first Increment of Sea/MSC Movement in OPLAN 123AA (Air Force Forces).	1	1.0
77	Identify and Fix Army Air/AMC ULNs that Have Fatal Errors.	1	1.0
78	Identify and Fix Air Force Air/AMC ULNs that Have Fatal Errors.	1	1.0
79	Identify and Fix Army Sea/MSC ULNs that Have Fatal Errors.	1	1.0
80	Identify and Fix Air Force Sea/MSC ULNs that Have Fatal Errors.	4	1.0
81	Review OPLAN 123AA for Correct Distribution to All Four Sites.	4	0.5
82	Review OPLAN 123AA Plan Summary at All Sites.	4	0.5

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours
83	Using Ad Hoc Query, Compare First Increment of Army Air/AMC Movement in OPLAN 123AA.	4	1.0
84	Using Ad Hoc Query, Compare First Increment of Air Force Air/AMC Movement in OPLAN 123AA.	4	1.0
85	Using Ad Hoc Query, Compare First Increment of Army Sea/MSC Movement in OPLAN 123AA.	4	1.0
86	Using Ad Hoc Query, Compare First Increment of Air Force Sea/MSC Movement in OPLAN 123AA.	4	1.0
87	Build Force Module AMC in OPLAN 123AA for First Increment of Army Movement.	1	0.5
88	Build Force Module BMC in OPLAN 123AA for First Increment of Air Force Movement.	1	0.5
89	Validate FMs AMC and BMC in OPLAN 123AA.	1	0.5
90	Lock OPLAN 123AA.	1	0.5
91	Using Ad Hoc Query, Check FMs AMC and BMC for Key Validation Data Fields (SSF, PIF, and Date).	4	1.0
92	Using RDA, Check OPLAN 123AA to Validate that it is Locked.	4	0.5
93	Using RDA, Check ULNs in OPLAN 123AA to Validate that SSF and PIF Values have been Set and that Appropriate Fields have Been Locked.	4	0.5

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours
94	Fix Army ULNs in FM AMC that have SSF of **E**.	1	1.0
95	Fix Air Force ULNs in FM BMC that have a SSF of **E**.	1	1.0
96	Revalidate FMs AMC and BMC in OPLAN 123AA.	1	0.5
97	Using JSIT, Review all ULNs in FM AMC and BMC to Validate a SSF of **V**.	4	0.5
98	Pull Validated Air/AMC Requirements in OPLAN 123AA.	1	0.5
99	Validate Existence of Pull File for Air/AMC Requirements in OPLAN 123AA.	1	0.5
100	Using JSIT, Review all ULNs in FMs AMC and BMC to Validate a SSF of **T**.	4	0.5
101	Schedule Organic Air Carriers (F-16).	1	0.5
102	Schedule Organic Air Carriers (C-130)	1	0.5
103	Schedule Sea/MSC Carriers - First 30 Days of Movement	1	0.5
104	Schedule Air/AMC Carriers - First Seven Days of Movement	1	0.5
105	Group Allocate Army ULNs to Sea/MSC Carriers	1	0.5
106	Group Allocate Army ULNs to Air/AMC Carriers	1	0.5
107	Group Allocate Air Force ULNs to Sea/MSC Carriers	1	0.5
108	Group Allocate Air Force ULNs to Air/AMC Carriers	1	0.5

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours
109	Using Ad Hoc Query, Review OPLAN 123AA to Determine if Air Organic Carriers are Present At All Sites.	4	1.0
110	Using Ad Hoc Query, Review OPLAN 123AA to Determine if Sea/MSC Carriers are Present At All Sites.	4	1.0
111	Generate a Movement Schedule Report - Verify the Presence of Air/AMC Carriers at All Sites.	4	1.0
112	Generate a Movement Allocation/Manifest Report - Verify Allocation of Army and Air Force ULNs to Sea/MSC Carriers.	4	1.0
113	Review Carriers - Verify Allocation of Army and Air Force ULNs to Air/AMC Carriers.	4	0.5
114	Report Organic Air Carrier Movement (F-16).	1	0.5
115	Report Organic Air Carrier Movement (C-130).	1	0.5
116	Manifest Army ULNs to Sea/MSC Carriers (Using F6 Allocations).	1	0.5
117	Manifest Air Force ULNs to Sea/MSC Carriers (Using Group Manifests).	1	0.5
118	Manifest Army ULNs to Air/AMC Carriers (Using Group Manifests).	1	0.5
119	Manifest Air Force ULNs to Air/AMC Carriers (Using F6 - Allocations).	1	0.5
120	Modify Sea/MSC Carrier - Report Sea/MSC Carrier Movement.	1	0.5
TEST FUNCTION		**PERSONS REQ=D**	**DURATION In Hours**

121	Modify Air/AMC Carrier - Report Air/AMC Carrier Movement.	1	0.5
122	Generate a Movement Schedule Report - Verify Air Organic Carrier Listings and Reported Movements.	4	0.5
123	Generate a Movement Schedule Report - Verify Sea/MSC Carrier Listings and Reported Movements.	4	0.5
124	Generate a Movement Schedule Report - Verify Air/AMC Carrier Listings and Reported Movements.	4	0.5
125	Generate a Movement Allocation/Manifest Report - Verify Air/AMC Carrier Listing and Presence of Appropriate Army and Air Force Manifests.	4	1.0
126	Generate a Movement Allocation/Manifest Report - Verify Sea/MSC Carrier Listing and Presence of Appropriate Army and Air Force Manifests.	4	1.0
127	Build a FM CMC in OPLAN 123AA for Second Increment of Army AMC Movement.	1	0.5
128	Build a FM DMC in OPLAN 123AA for Second Increment of Air Force AMC Movement.	1	0.5
129	Validate FMs CMC and DMC in OPLAN 123AA.	1	0.5
130	Using Ad Hoc Query, Check FMs CMC and DMC for Key Validation Data Fields (SSF, PIF, and Date).	4	1.0

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours
131	Using RDA, Check ULNs in OPLAN 123AA to Validate that SSF and PIF Values have been Set and that Appropriate Fields have Been Locked.	4	1.0
132	Fix Army ULNs in FM CMC that have SSF of **E**.	1	1.0
133	Fix Air Force ULNs in FM DMC that have a SSF of **E**.	1	1.0
134	Revalidate FMs CMC and DMC in OPLAN 123AA.	1	0.5
135	Pull Validated AMC Requirements in OPLAN 123AA.	1	1.0
136	Using JSIT, Review all ULNs in FMs CMC and DMC to Validate a SSF of **V**.	4	1.0
137	Validate Existence of Pull File for AMC Requirements in OPLAN 123AA.	1	0.5
138	Using JSIT, Review all ULNs in FMs CMC and DMC to Validated a SSF of **T**.	4	0.5

Table E-9. GTN Functional Tests

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours
1	LOGON	1	3.0
2	...	1	5.0
3	...	1	6.0
.	...	1	6.0
.	...	1	3.0
.	...	1	4.0

	TEST FUNCTION	PERSONS REQ=D	DURATION In Hours
.	...	1	4.0

Table E-10. JEPES Functional Tests

	TEST FUNCTION	PERSONS REQ=D	DURATION In Hours
1	Sign On To JEPES	1	0.5
2	Create Export File Containing Plan-Dependent Tables	1	3.0
3	Create Export Files Containing Plan-Independent Tables	1	3.0
4	Create Export File Containing Entire JEPES Database	1	3.0
5	Import Plan-Dependent Tables	1	2.5
6	Import Plan-Independent Tables	1	2.5

Table E-11. JNAV Functional Tests

	TEST FUNCTION	PERSONS REQ=D	DURATION In Hours
1	Identification of JNAV for GCCS	1	0.25
2	Test the capability of JNAV functionality to access JOPES applications	1	2.0
3	Identification of On-line HELP for GCCS	1	0.25
4	Verify Basic HELP Navigation Functionality	1	1.0
5	Utilize HELP Print Capabilities	1	0.25
6	Get HELP about GCCS and GCCS Applications	1	1.0
7	Utilize the GCCS On-line Tutorial (Describes the Basics of Using GCCS)	1	0.5
8	Identification of JNAV/JSIT Commands for GCCS	1	0.25
9	Utilize GCCS JNAV/JSIT *Operation Plan List* Functionality to Identify and List User OPLANS and	1	1.0

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours
	Related Data		
10	Utilize GCCS JNAV/JSIT, *JSIT Command Line* Functionality to Display OPLAN Information	1	0.5
11	Utilize GCCS JNAV/JSIT, *JSIT Command Line* Functionality to Display ULN Detailed Display Information	1	0.1
12	Utilize GCCS JNAV/JSIT, *JSIT Command Line* Functionality to Display CIN Detailed Display Information	1	0.1
13	Utilize GCCS JNAV/JSIT, *JSIT Command Line* Functionality to Display PIN Detailed Display Information	1	0.1
14	Utilize GCCS JNAV/JSIT, *JSIT Command Line* Functionality to Display Force Module Detailed Display Information	1	0.25

Table E-12. JOPES PDRPT Functional Tests

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours
1	LOGON	1	0.5
2	Generate an OPLAN Narrative Report (A05)	1	1.0
3	Generate a Master Force List Report (BF).	1	1.0
4	Generate a Unit Tasking Report (C6).	1	1.0
5	Generate a Plan Compare Report (C7).	1	1.0
6	Generate an Force Personnel Report (F11X).	1	1.0
7	Generate a Support Force Analysis Inter-Service Report (F35).	1	1.0
8	Generate a Support Force Analysis Specific Service Report (F35).	1	1.0
9	Generate an Time Phased Force Deployment Lift	1	1.0

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours
	Report (F53).		
10	Generate an Transportation Feasibility Report: Airlift Channel Summary (T01).	1	1.0
11	Generate a Transportation Feasibility Report: Sealift Channel Summary (T01).	1	1.0
12	Generate a Transportation Feasibility Report: Facility	1	1.0
13	Offload/Clearance Capacities (T05).	1	1.0
14	Generate a Transportation Feasibility Report: Daily Lift	1	1.0
15	Requirements Analysis (T07).	1	1.0
16	Generate a Transportation Feasibility Report: Summary Lift	1	1.0
17	Requirements Analysis Report (T07).	1	1.0
18	Generate a Transportation Feasibility Report: Daily Destination Reception Requirements (T07).	1	1.0
19	Generate a Transportation Feasibility Report: Destination Reception Requirements Summary (T07).	1	1.0
20	Generate a Transportation Feasibility Report: Strategic Lift Requirements (T07).	1	1.0
21	Generate a Transportation Feasibility Report: Negative Day (T08).	1	1.0
22	Generate a Transportation Feasibility Report: Retrograde/MEDEVAC (T08).	1	1.0
23	Generate a Transportation Feasibility Report: Force Cargo Analysis (T09).	1	1.0
24	Generate a Transportation Feasibility Report: Matrix Advisory (T09).	1	1.0
25	Generate an APORTS Report (FJ)	1	1.0
26	Generate an Country Code Report (F12C).	1	1.0

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours
27	Generate a Logistics Factors Report: Unit Consumption Factors (F12L).	1	1.0
28	Generate a Logistics Factors Report: Master Consumption Factors (F12L).	1	1.0
29	Generate a Logistics Factors Report: Resupply Origin Factors (F12L).	1	1.0
30	Generate a Logistics Factors Report: General Supply Factors (F12L).	1	1.0
31	Generate a Logistics Factors Report: Ports of Support (F12L).	1	1.0
32	Generate a PORTS Report (FI).	1	1.0
33	Generate an TUDET Report (F12D).	1	1.0

Table E-13. JPAV Functional Test

	TEST FUNCTION	PERSONS REQ=D	DURATION In Hours
1	LOGON	1	3.0
2	...	1	5.0
3	...	1	6.0
.	...	1	6.0
.	...	1	3.0
.	...	1	4.0
.	...	1	4.0

Table E-14. JTAV Functional Tests

	TEST FUNCTION	PERSONS REQ=D	DURATION In Hours
1	LOGON	1	3.0
2	...	1	5.0
3	...	1	6.0
.	...	1	6.0
.	...	1	3.0
.	...	1	4.0
.	...	1	4.0

Table E-15. MEPES Functional Tests

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours
1	Sign On To MEPES	1	0.5
2	Create/Update User-Defined Database Scenarios On Medical Reference Database (MRD)	1	3.0
3	Page/Print MRD Report	1	1.0
4	Using TPFDD Download Option, Initialize Population At Risk (PAR)	1	1.5
5	Using Hand Build Option, Initialize Population At Risk (PAR)	1	1.0
6	Generate PAR Report	1	1.0
7	Generate OPZONE Planning Worksheet	1	0.5
8	Generate/Update Medecal Planning Factors (MPF)	1	2.0
9	Page/Print MPF Report	1	1.0
10	Initialize Service/Joint Medical Working Files (MWF)	1	2.0
11	Transfer MWF	1	0.5
12	Spawn Medical Computations/ Evacuation Policy Analysis (PLG/MPM)	1	1.5
13	Spawn MEDEVAC Computations (Calculations)	1	1.0
14	Load/Save User Database Scenarios From/To Tape	1	0.5
15	Generate PLG/MPM Reports	1	0.5
16	Display Admissions/Dispositions Graph	1	0.5
17	Display Air Crew Requirements Graph	1	0.5
18	Display Class IB Rations	1	0.5
19	Display Class VIIIA Requirements	1	0.5

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours
20	Display Class VIIIB Requirements	1	0.5
21	Display Evacuation Workload Graph	1	0.5
22	Display Theater Evacuee Distribution Graph	1	0.5
23	Display Supportable Evac Policy Graph (Joint User Only)	1	0.5
24	Display Medical Force Comparison Graph	1	0.5
25	Add/Change/Delete Medical Forces Records To Medical Data	1	1.5
26	Transfer TPFDD Non-Unit Supply Class 8A and 8B to file	1	0.5

Table E-16. METOC Functional Tests

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours
1	LOGON	1	3.0
2	...	1	5.0
3	...	1	6.0
.	...	1	6.0
.	...	1	3.0
.	...	1	4.0
.	...	1	4.0

Table E-17. MS OFFICE 97 Functional Tests

	TEST FUNCTION	PERSONS REQ=D	DURATION In Hours
1	LOGON	1	3.0
2	...	1	5.0
3	...	1	6.0
.	...	1	6.0
.	...	1	3.0
.	...	1	4.0
.	...	1	4.0

Table E-18. NPG Functional Tests

	TEST FUNCTION	PERSONS REQ=D	DURATION In Hours
1	LOGON	1	0.5
2	CREATE/UPDATE PERSONNEL WORKING FILE(PWF)	1	2.0
3	GENERATE NON-UNIT PERSONNEL RECORDS AND MERGE TO TPFDD	1	2.5
4	EXECUTE NPG with TIME-PHASED APOD/PCT	1	2.0
5	REPORT GENERATION	1	1.0

Table E-19. SYSTEM SERVICES CHAR Functional Tests

	TEST FUNCTION	PERSONS REQ=D	DURATION In Hours
1	Add, Change, or Delete Server Domain;	1	2.0
2	Set Auto Journalling; Start Transaction Processor (TP); Start Transaction Distribution System (TDS)	1	1.0
3	Review User Permissions; Add, Change, or Delete User Permissions	1	1.0
4	Initialize OPLAN; Load, Off-Load OPLAN data	1	2.0

Table E-20. AHQ CHAR Functional Tests

	TEST FUNCTION	PERSONS REQ=D	DURATION In Hours
1	Build/Save/Execute an Ad Hoc Query to Screen - Requirements Data.	1	0.5
2	Build/Save/Execute an Ad Hoc Query to Screen - Scheduling and Movement Data.	1	0.5
3	Build/Save/Execute an Ad Hoc Query to Screen - Unit Information Data.	1	0.5
4	Build/Save/Execute an Ad Hoc Query to Screen - Requirements with Movement Data.	1	0.5
5	Build/Save/Execute an Ad Hoc Query to Screen - Movements with Requirements Data.	1	0.5
6	Build/Save/Execute an Ad Hoc Query to Screen - Requirements with Unit Information Data.	1	0.5
7	Build/Save/Execute an Ad Hoc Query to Screen - Requirements with S&M with Unit Information Data.	1	0.5
8	Retrieve a Previously Saved Ad Hoc Query to Screen and Print - Requirements Data.	1	0.25
9	Retrieve a Previously Saved Ad Hoc Query to Screen and Print - Scheduling and Movement Data.	1	0.25

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours
10	Retrieve a Previously Saved Ad Hoc Query to Screen and Print - Unit Information Data.	1	0.25
11	Retrieve a Previously Saved Ad Hoc Query to Screen and Print - Requirements with Movement Data.	1	0.25
12	Retrieve a Previously Saved Ad Hoc Query to Screen and Print - Movement with Requirements Data.	1	0.25
13	Retrieve a Previously Saved Ad Hoc Query to Screen and Print - Requirements with Unit Information Data.	1	0.25
14	Retrieve a Previously Saved Ad Hoc Query to Screen and Print - Requirements with Scheduling and Movement with Unit	1	0.25
15	Export and Import an Ad Hoc Query.	1	0.5
16	Build an Ad Hoc Query using Totals and Subtotals.	1	0.5
17	Build/Save/Execute an Ad Hoc Query with a Default of ULN/CIN/PIN.	1	0.25
18	Build and Execute an Ad Hoc Query with a Default C-Day Preference of Real Dates.	1	0.25
19	Execute an Ad Hoc Query and Access APPLIX Spreadsheet.	1	0.25
20	Execute a Batch Ad Hoc Query - Requirements Data.	1	0.25

Table E-21. PDR Functional Tests

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours
1	LOGON	1	0.5
2	Generate a Force Requirements Cargo Detail Report	1	1.0
3	Generate an AMC Requirements detail Report	1	1.0
4	Generate a MSC requirements Detail Report	1	1.0
5	Generate a Sealift Requirements Detail Report	1	1.0
6	Generate a Airlift Requirements Detail Report	1	1.0
7	Generate a Force List/Movement requirements Working Paper Report	1	1.0
8	Generate a Time-Phased Transportation Requirements List-Tonnage report	1	1.0
9	Generate a Time-Phased Transportation Requirements List-Square Feet Report	1	1.0
10	Generate a Logical Errors Report	1	1.0
11	Generate a Transportation Pre-Edit Report	1	1.0
12	Generate a TPFDD Compare by Exception Report	1	1.0
13	Generate a TPFDD Compare by Exception Report (Limited Display Fields)	1	1.0
14	Generate a Force Module Report	1	1.0
15	Generate a Force Module Roll up Report	1	1.0
16	Generate a Plan requirements Module Reference Report	1	1.0
17	Generate a GEO Paging Report	1	1.0
18	Generate a TUCHA Report	1	1.0
19	Generate a Transportation Requirements Summary Report	1	1.0

Table E-22. S&M CHAR Functional Tests

TEST FUNCTION		PERSONS REQ=D	DURATION IN HOURS
1	Add Cargo/PAX and Non-Cargo/Non-PAX Carriers	1	16.0
2	Add,Review and Modify Carrier Itineraries	1	6.0
3	Add or Review Remarks	1	2.0
4	Add Group Requirement Allocations	1	14.0
5	Add, Review, or Modify Allocated Requirements by Onload/Offload	1	8.0
5	Add Group Requirement Manifests	1	14.0
6	Add, Review, or Modify Manifested Requirements by Onload/Offload	1	8.0
7	Copy Carriers	1	2.0
8	Delete Carriers	1	1.0
9	Deallocate Carriers	1	1.0
10	Demanifest Carriers	1	1.0
11	Add (Link) and Delete (Delink) OPLANS	1	2.0
12	Generate S&M Reports (8)	1	4.0

Table E-23. RDA Functional Tests

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours
1	LOGON	1	0.25
2	Add / Change OPLAN Title and Description / Plan Information	1	0.5
3	Create ULN/CIN/PIN	1	2.25
4	Change ULN/CIN/PIN	1	3.0
5	Convert Standard ULN to Non-Standard/Add 4th Level Details	1	1.0

	TEST FUNCTION	PERSONS REQ=D	DURATION In Hours
6	Create Force Module	1	1.0
7	Create Force Module using Selective Multiple Criteria	1	1.0
8	Add Reqids to FM/Select by Previous Query	1	0.5
9	Duplicate Reqids in FM/Create New FM	1	1.0
10	Copy FM to Target	1	0.5
11	Renumber FM Reqids/Print FM Rollup Report	1	1.0
12	Change FM Title & Desc. /Print FM Report	1	1.0
13	RDA Error Checks	1	0.5
14	RDA JSIT	1	0.5
15	RDA Reports	1	3.0
16	Shift TPFDD Dates	1	1.0
17	Change ULN Routing Info	1	1.0
18	Create Split Shipment ULNs	1	1.0
19	Fragment ULNs	1	1.0
20	Merge OPLANs	1	1.0
21	Copy OPLAN	1	1.0
22	PID Compare	1	2.0
23	Update to TUCHA	1	1.0
24	Copy/Move 4th Level Detail/Rollup	1	1.0
25	Copy/Move 3d Level Detail/Rollup Details	1	1.0
26	Delete 4th Level Detail/Create 3d Level Detail	1	1.0

Table E-24. RPI Functional Tests

	TEST FUNCTION	PERSONS REQ=D	DURATION In Hours

	TEST FUNCTION	PERSONS REQ=D	DURATION In Hours
1	Extract Army (A), Navy (N), Air Force (AF) Data	1	2.0
2	Create Combined Assest	1	2.0
3	Export Combined Assets	1	1.0
4	Display A/N/AF Processing Results Report	1	0.5
5	View/Print A/N/AF Facility View/Print Reports	1	0.25
6	View/Print A/N/AF Detail Errors Report	1	0.25
7	View/Print A/N/AF Assets Report	1	0.25
8	View/Print Combined Assets	1	0.25
9	Validation Table Reports - Print DOD Facility Codes	1	0.25
10	Validation Table Reports - Print Services Category Conversion Codes	1	0.25
11	Validation Table Reports - Print Installation/GEO Conversion Table	1	0.25
12	Make Working Copy of Facility Codes and Conversion Tables/Codes	1	0.25
13	Update Service Category Conversion Codes	1	0.5
14	Update Installation/GEO Conversion Administration Table	1	0.5
15	Update Live Validation Table	1	0.5
16	Display Specific Help Window and Error Information	1	0.25

Table E-25. RUDRS Functional Tests

	TEST FUNCTION	PERSONS REQ=D	DURATION In Hours
1	Update RUDRS Database to GEOFILE/TUCHA, Populate Database	1	1.5
2	Update RUDRS CINC/NRFL Database	1	1.5
3	Update GCCS OPLAN with RUDRS Database	1	2.5

Table E-26. SECURITY TOOLS Functional Tests

	TEST FUNCTION	PERSONS REQ=D	DURATION In Hours
1	LOGON	1	3.0
2	...	1	5.0
3	...	1	6.0
.	...	1	6.0
.	...	1	3.0
.	...	1	4.0
.	...	1	4.0

Table E-27 SMART THIN CLIENT Functional Tests

	TEST FUNCTION	PERSONS REQ=D	DURATION In Hours
1	LOGON	1	3.0
2	...	1	5.0
3	...	1	6.0
.	...	1	6.0
.	...	1	3.0
.	...	1	4.0
.	...	1	4.0

Table E-28. SYSTEM SERVICES Functional Tests

	TEST FUNCTION	PERSONS REQ=D	DURATION In Hours
1	Add, Change, or Delete Server Domain;	1	2.0
2	Set Auto Journalling; Start Transaction Processor (TP); Start Transaction Distribution System (TDS)	1	1.0
3	Review User Permissions; Add, Change, or Delete User Permissions	1	1.0
4	Initialize OPLAN; Load, Off-Load OPLAN data	1	2.0

Table E-29. S&M Functional Tests

TEST FUNCTION		PERSONS REQ=D	DURATION IN HOURS
1	Add Cargo/PAX and Non-Cargo/Non-PAX Carriers	1	16.0
2	Add,Review and Modify Carrier Itineraries	1	6.0
3	Add or Review Remarks	1	2.0
4	Add Group Requirement Allocations	1	14.0
5	Add, Review, or Modify Allocated Requirements by Onload/Offload	1	8.0
5	Add Group Requirement Manifests	1	14.0
6	Add, Review, or Modify Manifested Requirements by Onload/Offload	1	8.0
7	Copy Carriers	1	2.0
8	Delete Carriers	1	1.0
9	Deallocate Carriers	1	1.0
10	Demanifest Carriers	1	1.0
11	Add (Link) and Delete (Delink) OPLANS	1	2.0
12	Generate S&M Reports (8)	1	4.0

Table E-30. SMINT Functional Tests

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours
1	SMINT Setup	1	0.5
2	Setup/Print SMINT files	1	1.0
3	Create Carriers	1	2.5
4	Modify Carriers	1	2.5
5	Change Carriers	1	2.5
6	Delete Carriers	1	1.5

Table E-31. WINDD CLIENT Functional Tests

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours
1	LOGON	1	3.0
2	...	1	5.0
3	...	1	6.0
.	...	1	6.0
.	...	1	3.0
.	...	1	4.0
.	...	1	4.0

Table E-32. IMS Functional Tests

	TEST FUNCTION	PERSONS REQ=D	DURATION In Hours
1	Transfer TPFDD from GCCS Core Database to: IMS, DART, External, JFAST, XTP	1	3.0
2	Transfer TPFDD From IMS To DART, External, JFAST, XTP	1	3.0
3	Delete A TPFDD File Using IMS TPFDDS Function	1	1.0
4	Modify The TPFDD File Comments	1	2.0
5	Transfer TPFDD From DART To IMS, External, JFAST, XTP	1	3.0
6	Rename A TPFDD When IMS Is The Source Using IMS	1	1.0

Table E-33. RFA Functional Tests

	TEST FUNCTION	PERSONS REQ=D	DURATION In Hours
1	Sign on to RFA	1	0.5
2	Copy Live GEO File to Local GEO File	1	1.0
3	Online Add, Change, and Delete a GEO File entry	1	1.5
4	Online Add, Change, Cancel/Uncancel, and Delete multiple GEO file entries	1	1.5
5	Auto Delete GEO Records	1	0.5
6	Find and Retrieve an Existing GEO Record	1	
7	Update JOPES Core Database Servers using GEO Network Function	1	
8	Generate Report Types for the GEO Reference file	1	
9	Copy Live TUCHA file to local TUCHA file	1	
10	Auto Delete TUCHA Records	1	
11	Update TUCHA file using Batch Processing	1	
12	Update JOPES Core Database Servers using TUCHA	1	

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours
	Network Function		
13	Generate Report Types for the TUCHA Reference file	1	
14	Copy Live TUDET File to local TUDET file	1	
15	Update TUDET File using Batch Processing	1	
16	Update JOPES Core Database Servers using TUDET Network Function	1	
17	Generate Report Types for the TUDET Reference file	1	
18	Copy Live LFF File to local LFF file	1	
19	Update LFF File using Batch Processing	1	
20	Update JOPES Core Database Servers using LFF Network Function	1	
21	Generate Report Types for the LFF Reference File	1	
22	Copy Live PORTS File to local PORTS file	1	
23	Update PORTS file using Batch Processing	1	
24	Update JOPES Core Database Servers using PORTS Network Function	1	
25	Generate Report Types for the PORTS Reference File	1	
26	Copy Live APORTS File to local APORTS file	1	
27	Update APORTS file using Batch Processing	1	
28	Update JOPES Core Database Servers using APORTS Network Function	1	2.0
29	Generate Report Types for the APORTS Reference File	1	0.5

Table E-34. GSORTS Functional Tests

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours

	TEST FUNCTION	PERSONS REQ=D	DURATION In Hours
1	LOGON	1	3.0
2	...	1	5.0
3	...	1	6.0
.	...	1	6.0
.	...	1	3.0
.	...	1	4.0
.	...	1	4.0

Table E-35. LOGSAFE Functional Tests

	TEST FUNCTION	PERSONS REQ=D	DURATION In Hours
1	Create LOGSAFE Force List (Include All Forces-Retaining FM Designation)	1	1.5
2	Create Planning Factors	1	2.0
3	Create Ports of Support	1	1.0
4	Create Unit Consumption Factors Data	1	1.0
5	Modify Planning Factors	1	1.5
6	Generate Requirements and NURCs	1	1.0
7	Export Channelized NURCs Sort	1	1.0
8	Import Class 4A Data from JEPES	1	1.0
9	Import Class 8 Data from MEPES	1	1.0

Table E-36. RFM Functional Tests

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours
1	LOGON	1	3.0
2	...	1	5.0
3	...	1	6.0
.	...	1	6.0
.	...	1	3.0
.	...	1	4.0
.	...	1	4.0

Table E-37. AHQW Functional Tests

TEST FUNCTION		PERSONS REQ=D	DURATION In Hours
1	LOGON	1	3.0
2	...	1	5.0
3	...	1	6.0
.	...	1	6.0
.	...	1	3.0
.	...	1	4.0
.	...	1	4.0

APPENDIX F

DATA COLLECTION FORMS

User Assessment Survey

Joint Interoperability Test Command			
GCCS-MDT&E USER ASSESSMENT SURVEY			Date:
Trial No.(s):	Data Capture Event (if unclassified):		Location:
Data Collector's Name:		Phone No.:	E-mail Address:
System Operator's Name:		Phone No.:	E-mail Address:
Note: Fill out one survey per operator interviewed.			

Joint Interoperability Test Command

GCCS-MDT&E USER ASSESSMENT SURVEY | Date:

1. How much training did you receive on this system?
   a. Formal classroom?
      o 1 week< o 1 to 3 weeks o 3 weeks to 2 months o 2 to 6 months o > 6 months
   b. Hands-on experience?
      o 1 week< o 1 to 3 weeks o 3 weeks to 2 months o 2 to 6 months o > 6 months
   c. System setup?
      o 1 week< o 1 to 3 weeks o 3 weeks to 2 months o 2 to 6 months o > 6 months
   d. Troubleshooting?
      o 1 week< o 1 to 3 weeks o 3 weeks to 2 months o 2 to 6 months o > 6 months
   e. Software and hardware upgrades?
      o 1 week< o 1 to 3 weeks o 3 weeks to 2 months o 2 to 6 months o > 6 months

2. How much experience do you have with this system?
   o 3 months< o 3 to 6 months o 6 months to 1 year o 1 to 3 years o > 3 years

3. How much experience do you have with similar systems?
   o 3 months< o 3 to 6 months o 6 months to 1 year o 1 to 3 years o > 3 years

4. Does your system training allow you to effectively perform your daily mission? o Yes o No

5. Do you feel fully qualified to operate this system and applications? o Yes o No

6. Did the applications(s) perform all mission required functions? o Yes o No

7. If not, what functions were not supported? _____
_____
_____

8. Did the received data provide all the mission required information? o Yes o No

9. If not, what data and from which source did you experience problems? _____
_____

SYSTEM INTERFACE DIAGRAM. The data collector completes these forms. The data collector must complete one form for each system configuration tested. In most cases, the data collector must complete two forms, one for each end of the interface. A new form is required for every change in the interface connectivity. Specific instructions follow.

a. Header Information (Complete this information at the start of data collection.)

(1) Date. Date the form was completed.

(2) Trial No.(s). Sequential numbering of data capture events.

(3) Data Capture Event. The name, if unclassified, of the assessment or mission operation during which data was collected.

(4) Location. The location of the system under observation, including building or staff element, and parent organization.

(5) Data Collector's Name. The full name, grade/rank (if applicable), and organization of the individual completing the form.

(6) Phone No. The DSN or commercial phone number of the individual completing the form.

(7) E-mail Address. The NIPRNET or SIPRNET address of the individual completing the form.

(8) System Operator's Name. The full name, grade/rank (if applicable), and organization of the system operator.

(9) System. The interfacing system(s) to which the form applies.

b. Diagram. Cite the start date and time for which the information in the diagram is current. In the block provided, using wiring and block diagrams, draw the interface from end-to-end in as much detail as possible. An example is provided.

System Interface Diagram

<table>
<tr><th colspan="4">Joint Interoperability Test Command</th></tr>
<tr><td colspan="3">GCCS-MDT&E System Interface Diagram</td><td>Date:</td></tr>
<tr><td>Trial No.(s):</td><td colspan="2">Data Capture Event (if unclassified):</td><td>Location:</td></tr>
<tr><td colspan="2">Data Collector's Name:</td><td>Phone No.:</td><td>E-mail Address:</td></tr>
<tr><td colspan="2">System Operator's Name:</td><td colspan="2">System:</td></tr>
<tr><td colspan="4">Identify all interconnections from end-system to end-system.
Please, when drawing the diagram consider the following:
Is the system on a LAN, or is it a stand-alone? If a LAN, what type?
What are the comms links (i.e., routers, radio systems, COMSEC, etc.)?
Depict physical connections to comms equipment (i.e., cables, wires, etc.).
Show the other system in as much detail as known. Indicate the other system name.

COMPLETE A NEW DIAGRAM EVERY TIME THE CONFIGURATION CHANGES.</td></tr>
<tr><td colspan="4"></td></tr>
<tr><td colspan="2">Date:</td><td colspan="2">Time:</td></tr>
</table>

Joint Interoperability Test Command	
GCCS-MDT&E System Interface Diagram	Date:

(continue on back if needed)

Joint Interoperability Test Command	
GCCS-MDT&E System Interface Diagram	Date:
SME Assessment Sheet	
Application Assessed:	
Name of Developer: Location: POC: Date:	
User Group Represented:	
User Representative Name:	
Organization	Phone
JITC Rep:	Phone
User expectations:	
Observations:	
	Agree -------Disagree
Application functions similar to what I currently use:	5 4 3 2 1 N/A

Joint Interoperability Test Command		
GCCS-MDT&E System Interface Diagram	Date:	
Application functions IAW requirements:		5 4 3 2 1 N/A
Application requirements are satisfactory		5 4 3 2 1 N/A
Application should be integrated into GCCS v3.0:		5 4 3 2 1 N/A
		5 4 3 2 1 N/A
		5 4 3 2 1 N/A

Assessment of Installation of GCCS version 3.0

1. Was the installation package received with all necessary products and information? If not, what specifically was missing?

2. How long did the installation take?

3. Was all documentation clear, understandable and usable? It not, how could it be improved?

4. Were instructions clear and logical? It not, how could it be improved?

5. Was the System Administrator able to complete the installation? If not, why not?

6. Were all pre-conditions and/or pre-requisites for installation clearly defined?

7. Were any problems detected during the installation? If yes, what were they?

8. Was there any need to request assistance during the installation? If yes, what type?

9. Were there any problems reported to the GMC as a result of the installation? If yes, what were they?

10. After the installation was completed, were any problems detected in the configuration setup? If yes, what were they?

11. Were peripheral devices, such as tape drives or printers, affected by the installation? If yes, what were the problems?

12. Did the installation require any unexpected changes to be made in the configuration or status? If yes, what were they?

13. What comments or suggestions would you make to improve the installation of GCCS Version 3.0?

Assessment of Installation of GCCS Version 3.0					
Area of Assessment	**JITC**	**CENTCOM**	**ACOM**	**TRANSCOM**	**JDEF**
The installation package was received with all necessary products and information.					
Installation lasted:					
Documentation was clear, understandable and usable.					
Instructions were clear and logical.					
The System Administrator was able to complete the installation.					
Pre-conditions and/or pre-requisites for installation were clearly defined.					
Problems were detected during the installation.					
Assistance was requested during the installation.					
Problems were reported to the GMC as a result of the installation.					
After completion of the installation was completed, problems were detected in the configuration setup.					
Peripheral devices, such as tape drives or printers, were affected by the installation.					
Installation required unexpected changes to be made in the configuration or status.					

Assessment of Installation of GCCS version 3.0					
Notes:	**JITC**	**CENTCOM**	**ACOM**	**TRANSCOM**	**JDEF**